Google™

Advanced Search   Preferences   Language Tools   Search Tips

[mediator metadata wrapper]   [Google Search]

Web · Images · Groups · Directory · News ·

Searched the web for **mediator metadata wrapper**.   Results **1** - **10** of about **1,630**. Search took **0.13** seconds.

[PDF]ADEMS, an ADaptable and Extensible Mediation Service application ...
File Format: PDF/Adobe Acrobat - View as HTML
... system configuration Generation of **mediator** hierarchy module Generation **Metadata**
Expression subscription related ... systems are: Objects **Wrapper** Adapter 2 ...
www.cs.ust.hk/vldb2002/VLDB2002-proceedings/ papers/S34P08.pdf - Similar pages

[PPT]**Metadata** and Data Collection
File Format: Microsoft Powerpoint 97 - View as HTML
... Field **Wrapper** sends **metadata** on field environment to **mediator** with request.
Computation server prepares data in format appropriate for field computer. ...
dg.statlab.iastate.edu/dg/papers_presentations/ppts/
Nusser_Fedcasic_2002_Metadata_and_Data_Collection.ppt - Similar pages

[PDF]CREAM: A **Mediator** Based Environment for Modeling and Accessing ...
File Format: PDF/Adobe Acrobat - View as HTML
... Based on the **mediator** approach, we have ... Generators Semantic Filter Users **Metadata**
Layer Common ... Schema Mapper Ontology Mapper **Wrapper** Generator Information ...
misrc.umn.edu/workingpapers/fullpapers/ 2001/0133_100101.pdf - Similar pages

[PPT]Database Design and Data Loading
File Format: Microsoft Powerpoint 97 - View as HTML
... MIX-DL: A MIX-based Digital Library Architecture. **Mediator**. **Wrapper**. ... Data
file. **Wrapper**.
Non-XML. source. Querying of **metadata**. San Diego Supercomputer Center. ...
www.sdsc.edu/NARA/Publications/SRB_MIX/srbws_mix.ppt - Similar pages

[PPT]6 EC-GI GIS Workshop, Lyon, June 2000
File Format: Microsoft Powerpoint 97 - View as HTML
... **Wrapper**. **Metadata** in XML,. map in proprietary. form. **Metadata** and map in XML form.
Metadata and. map in XML. form. Request in. proprietary. language. **Mediator**. Request
in. ...
www.sdsc.edu/sdsc-lter/lter-asm2000-chaitan.ppt - Similar pages
[More results from www.sdsc.edu]

A **Mediator**-based Architecture
A **Mediator**-based Architecture. ... W stands for **wrapper**, D for data, T for text, I for
index ... process-oriented view of data in Section 2 and the **metadata** framework of ...
www.first.gmd.de/applications/ tomasic/node7.sbak.sbak.html - 6k - Cached - Similar pages

[PDF]ECS F Information Systems Interop erabilit y General Information ...
File Format: PDF/Adobe Acrobat - View as HTML
... **Mediator** web-based data sources **wrapper** generator **Mediator** Generator customazible
web crawler XML Query Interface and Engine **Metadata** Repository Ontology ...

sirius.cs.ucdavis.edu/teaching/ 289F-SQ00/Handouts/over-2.pdf - Similar pages

[PPT]Collection- and Knowledge-Based Persistent Archives at SDSC
File Format: Microsoft Powerpoint 97 - View as HTML
... extend the SDSC query and **metadata** architecture to ... interoperation at the **wrapper** level:
Minerva wrappers, XWrap. ... Integration in a Neuroscience **Mediator** System, B ...
sdm.lbl.gov/sdmcenter/pub/sdm.4d.bottom.ppt - Similar pages

[PDF]8QL&DWV
File Format: PDF/Adobe Acrobat - View as HTML
... 8QL&DWV Michael Christoffel Managing the Information Market **Wrapper** ... G in progress:
generation of **metadata** U ... Access Control Planner T **Mediator** W Parallel ...
www.cg.cs.tu-bs.de/v3d2/Workshops/v3d2-symposium-2000/ slides/unicats_v3d2_goettingen.pdf - Similar pages

[PDF]Introduction Repository Creation Updates Queries
File Format: PDF/Adobe Acrobat - View as HTML
... in the same way with the **Mediator** as with the ... are used to implement data sources,
metadata implicitly describes the properties of a **wrapper** and its ...
www.e-xmlmedia.com/brochure/TomasicDIWEB2002.pdf - Similar pages

Goooooooooogle ▶
Result Page: **1** 2 3 4 5 6 7 8 9 10   **Next**

| mediator metadata wrapper | | Google Search | Search within results

Dissatisfied with your search results? Help us improve.

Get the Google Toolbar: | Google ▾ [   ] | 🔍 Search Web | 🔍 Search Site | 📰 News | PageRank | ✏ Hi

Google Home - Advertise with Us - Business Solutions - Services & Tools - Jobs, Press, & Help

Google™

Advanced Search   Preferences   Language Tools   Search Tips

Google Search

Web . Images - Groups - Directory - News .

Searched the web for **mediator metadata wrapper uml transformation**. Results **1 - 10** of about **128**. Search too

[PDF]SILK: Logic-based Information Integration
File Format: PDF/Adobe Acrobat - View as HTML
... Extractor XML Data **Wrapper** SOAP **Metadata** Extractor SOAP Function
Wrapper Soft Objects
Java ... End User Query Execution Controller **Mediator** Query Optimiser ...
www.silk-project.com/downloads/SILK_ML_2002.pdf - Similar pages

[PDF]**Metadata** Management
File Format: PDF/Adobe Acrobat - View as HTML
... DBS 1) Client 1 Client k **Mediator** / FDBS / Portal ... approaches based on
UML: - Open
Information ... controlled replicaton of **metadata Metadata wrapper** - mapping
of ...
wwwiti.cs.uni-magdeburg.de/iti_db/workshops/ gdb2001/papers/Rah01gdb.pdf -
Similar pages

[PDF]**Metadata** and Cooperative Knowledge Management
File Format: PDF/Adobe Acrobat - View as HTML
... Data Mart OLAP DSS GIS **Mediator** Sources Clients ... Impact Information
Source Data Warehouse
Wrapper/ Loader Multidim ... MJ-0008-15 Outline o **Metadata** and
Cooperative ...
www.cs.toronto.edu/caise02/mjarke.pdf - Similar pages

[PPT]Verteilte Geoinformationssysteme
File Format: Microsoft Powerpoint 97 - View as HTML
... **Wrapper** 3. **Wrapper** 4. ... Mischung aus data warehousing und **mediator**
based System (gute
Flexibilität und Zugriffszeiten). ... **Metadata** Object Model - Informationspakete.
...
www.informatik.uni-bonn.de/~tb/Lehre/ ws00/sVS/Folien/Gertig_Hadaschik.ppt -
Similar pages

Do, Hong Hai; Rahm, Erhard: On **Metadata** Interoperability in
Data ...
... used by other middleware, such as a **mediator** providing uniform ... The
metadata exchange
between the source repositories and the **wrapper** and between ...
dol.uni-leipzig.de/pub/2000-13 - 74k - Jun 29, 2003 - Cached - Similar pages

[PDF]A WFS-Based Mediation System for GIS Interoperability
File Format: PDF/Adobe Acrobat - View as HTML
... protocol, data sources and the **mediator** may not ... A program **wrapper**
creates a new (derived)
data ... a dedicated directory schema information and **metadata** useful for ...
www.cis.upenn.edu/~lacroix/PAPERS/gis02.pdf - Similar pages

[PDF]EDUTELLA: Searching and Annotating Resources within an
RDF-based ...

File Format: PDF/Adobe Acrobat - View as HTML
... **WRAPPER** PEER Figure 5: Query **Mediator Wrapper** network, which ... implications) we may emulate the **metadata** structure of ... Peer Config K-Edutella **Wrapper** Local RDF ...
semanticweb2002.aifb.uni-karlsruhe.de/ proceedings/Research/Nejdl.pdf - Similar pages

[PPT]XML Tutorial
File Format: Microsoft Powerpoint 97 - View as HTML
... aggregation, composition. XMI 1.1 (OMG): **metadata** exchange between modeling tools (based on **UML**). **metadata** repositories (based on the Meta Object Facility MOF). ...
www.npaci.edu/DICE/Pubs/SC2000/M5B.ppt - Similar pages

[PPT]XML Tutorial
File Format: Microsoft Powerpoint 97 - View as HTML
... Project XML file (map extent, settings, list of layers, rendering). **Metadata**. Frameset. and program calls. 36. ... **Mediator**. Spatial **Mediator**. **Wrapper**. Active. View 1. ...
www.npaci.edu/DICE/Pubs/SC2000/M5B-2.ppt - Similar pages

[PPT]<<Title of the talk>>
File Format: Microsoft Powerpoint 97 - View as HTML
... deployment descriptor. documentation (eg RDF). **metadata** for Repository. ISST. ... Example: Information Logistics. **Mediator**. **Wrapper**. Information- service. Inhaltlicher. ...
cis.cs.tu-berlin.de/~aleicher/eve.ppt - Similar pages
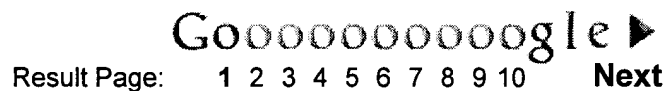
Goooooooooogle ▶

Result Page: **1** 2 3 4 5 6 7 8 9 10   **Next**

mediator metadata wrapper uml tran | Google Search | Search within results

Dissatisfied with your search results? Help us improve.

Get the Google Toolbar: | Google ▾ | | Search Web | Search Site | News | PageRank | Hi

Google Home - Advertise with Us - Business Solutions - Services & Tools - Jobs, Press, & Help

A Mediator-based Architecture
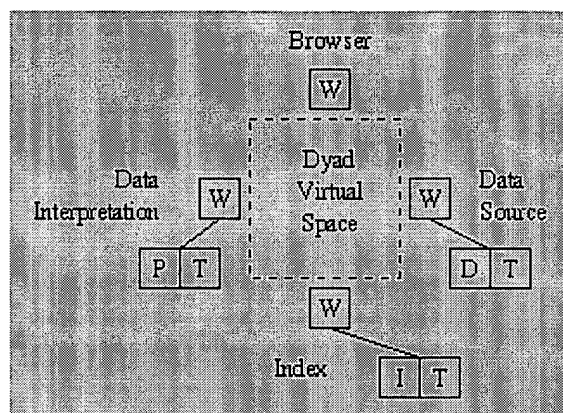
Figure 1: The proposed architecture. W stands for wrapper, D for data, T for text, I for index, and P for program.

We propose an architecture that directly supports the process-oriented view of data in Section 2 and the metadata framework of Section 3. Figure 1 shows a diagram of our proposed architecture. The architecture consists of four classes of components: browsers, data sources, indexes, and data interpretation programs.

Browsers are the user interface to the system. The user can view data from data sources, search for objects in the system through the indexes and launch programs for data interpretation. Data sources, such as a database system, export data and metadata via query services. The information in the data sources includes the metapredicates necessary to define the interrelationship between data sources as described in Section 2. Indexes provide searching over all free text, data and metadata. Data interpretation programs comprise scientific models used in the consolidation, aggregation, analysis and interpretation.

All components are interconnected via the dyad virtual space, which is a collection of protocols. Each component interfaces to the system through a wrapper [7]. Each object in the virtual space is a dyad consisting of (i) free text and (ii) the formal object that represents the data, metadata, context, index or computation. The free text provides a means (through the indexes) for locating the corresponding objects.

The functionality of wrappers varies widely, depending on its purpose. Browser wrappers understand the structure of dyads and support browsing of the free text and formal objects contained in them. Browsing formal objects is supported by the invocation of data visualization programs. In addition, the browser supports the query interface of the data sources and indexes, and it supports requests for wrappers to translate queries and responses between the dyad virtual space and data sources. The index wrappers provide the information retrieval queries and also web-crawling technology for the construction of indexes. Data interpretation browsers manage the invocation of programs.

Returning to the example in Section 2, we describe each part of Figure 1. A database of historical wave data, including wave height, force of a wave, etc. for every beach in France, is a data source. This data is generated by a government authority and exported via a wrapper. Meteorological data is another data

source, also produced by a government authority and also exported via a wrapper. Both of these data sources are managed by Bob Data Provider. Alice Broker searches, using the index, for these two data sources and constructs an analysis of *predictions* of wave data based on the historical database and the predicted weather patterns. The model used to generate the predictions comes from a data interpretation. It consists of a program, the predicate model1 that describes the parameters of the prediction model, and metapredicates. The predictions are a third data source whose associated context α consists of raw_measurements, estimated_measurements, and forecast. The metapredicate forecast indicates, for each forecast program, the predicates of its input, output and prediction model, i.e. model1.

Finally, a fourth data source represents shark attack reports in French newspapers. Another broker, Mary Broker accesses the dyad containing the α context via the index and constructs a fifth data source safe_beach that describes safe beaches for wind surfing, based on the predicted wave data and recent reported shark attacks. For Joe End User, the task of finding a safe beach consists of using a browser to examine safe_beach. Since the context of safe_beach contains the structure of the analysis, Joe can trace back through the structure to understand how a specific beach was determined safe or unsafe.

Thu Mar 20 14:39:01 MET 1997

```
Set      Items    Description
S1          28    AU=(MUSICK C? OR MUSICK, C?)
S2          44    AU=(CRITCHLOW T? OR CRITCHLOW, T?)
S3          73    AU=(GANESH M? OR GANISH, M?)
S4         124    AU=(SLEZAK T? OR SLEZAK, T?)
S5          48    AU=(FIDELIS K? OR FIDELIS, K?)
S6           0    S1 AND S2 AND S3 AND S4 AND S5
S7          27    (S1 OR S2 OR S3 OR S4 OR S5) AND (DATAMIN? OR DATAWARE? OR
                  DATA()(MINE? OR MINING OR WAREHOUSE?) OR METADATA? OR META()(-
                  DATA OR INFORMATION?) OR METAINFORMATION? OR SCHEMA? ?)
S8          12    RD (unique items)
File   8:Ei Compendex(R) 1970-2003/Jun W4
          (c) 2003 Elsevier Eng.  Info. Inc.
File  35:Dissertation Abs Online 1861-2003/Jun
          (c) 2003 ProQuest Info&Learning
File 202:Info. Sci. & Tech. Abs. 1966-2003/Jun 30
          (c) Information Today, Inc
File  65:Inside Conferences 1993-2003/Jun W5
          (c) 2003 BLDSC all rts. reserv.
File   2:INSPEC 1969-2003/Jun W4
          (c) 2003 Institution of Electrical Engineers
File  94:JICST-EPlus 1985-2003/Jun W4
          (c)2003 Japan Science and Tech Corp(JST)
File 111:TGG Natl.Newspaper Index(SM) 1979-2003/Jun 25
          (c) 2003 The Gale Group
File 233:Internet & Personal Comp. Abs. 1981-2003/May
          (c) 2003 Info. Today Inc.
File 144:Pascal 1973-2003/Jun W3
          (c) 2003 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
          (c) 1998 Inst for Sci Info
File  34:SciSearch(R) Cited Ref Sci 1990-2003/Jun W5
          (c) 2003 Inst for Sci Info
File  99:Wilson Appl. Sci & Tech Abs 1983-2003/May
          (c) 2003 The HW Wilson Co.
File 275:Gale Group Computer DB(TM) 1983-2003/Jun 30
          (c) 2003 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2003/Jun 25
          (c) 2003 The Gale group
File  75:TGG Management Contents(R) 86-2003/Jun W4
          (c) 2003 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2003/Jun 30
          (c) 2003 The Gale Group
File  16:Gale Group PROMT(R) 1990-2003/Jul 01
          (c) 2003 The Gale Group        \
File 624:McGraw-Hill Publications 1985-2003/Jun 30
          (c) 2003 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2003/Jun W4
          (c) 2003 ProQuest
File 613:PR Newswire 1999-2003/Jul 01
          (c) 2003 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
          (c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2003/May
          (c) 2003 The HW Wilson Co
File 696:DIALOG Telecom. Newsletters 1995-2003/Jun 30
          (c) 2003 The Dialog Corp.
File 553:Wilson Bus. Abs. FullText 1982-2003/May
          (c) 2003 The HW Wilson Co
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Jun 27
          (c) 2003 The Gale Group
File 674:Computer News Fulltext 1989-2003/Jun W5
          (c) 2003 IDG Communications
File  88:Gale Group Business A.R.T.S. 1976-2003/Jun 26
          (c) 2003 The Gale Group
File 369:New Scientist 1994-2003/Jun W4
          (c) 2003 Reed Business Information Ltd.
```

```
File 160:Gale Group PROMT(R) 1972-1989
          (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2003/Jul 01
          (c) 2003 ProQuest Info&Learning
File  15:ABI/Inform(R) 1971-2003/Jun 30
          (c) 2003 ProQuest Info&Learning
File   9:Business & Industry(R) Jul/1994-2003/Jun 30
          (c) 2003 Resp. DB Svcs.
File  13:BAMP 2003/Jun W4
          (c) 2003 Resp. DB Svcs.
File 810:Business Wire 1986-1999/Feb 28
          (c) 1999 Business Wire
File 610:Business Wire 1999-2003/Jul 01
          (c) 2003 Business Wire.
File 647:CMP  Computer Fulltext 1988-2003/Jun W2
          (c) 2003 CMP Media, LLC
File  98:General Sci Abs/Full-Text 1984-2003/May
          (c) 2003 The HW Wilson Co.
File 148:Gale Group Trade & Industry DB 1976-2003/Jun 27
          (c)2003 The Gale Group
File 634:San Jose Mercury  Jun 1985-2003/Jun 29
          (c) 2003 San Jose Mercury News
```

8/3,K/1   (Item 1 from file: 8)

06041419   E.I. No: EIP02166923477
  Title: **Using** meta - data **to automatically wrap bioinformatics sources**
  Author: Buttler, David; **Critchlow, Terence**
  Corporate Source: College of Computing Georgia Institute of Technology,
Atlanta, GA 30332, United States
  Source: Information and Software Technology v 44 n 4 Mar 31 2002. p
237-239
  Publication Year: 2002
  CODEN: ISOTE7   ISSN: 0950-5849
  Language: English

  Title: **Using** meta - data **to automatically wrap bioinformatics sources**
  Author: Buttler, David; **Critchlow, Terence**
  ...Abstract: One fundamental problem is automating the retrieval of data
from each site. We propose a **meta - data** description language to
delineate both the steps required to retrieve data, as well as the...

  ...description will enable the automatic generation of wrappers that can
extract the appropriate data. Our **meta - data** language is based on DARPA
Agent Markup Language-S (DAML-S), extending the description to...
  Descriptors: **Metadata** ; Data acquisition; Websites; XML; HTTP; Semantics

8/3,K/2   (Item 2 from file: 8)

05960029   E.I. No: EIP01516771258
  Title: **Experiences applying** meta - data **to bioinformatics**
  Author: **Critchlow, T.** ; Musick, R.; **Slezak, T.**
  Corporate Source: Lawrence Livermore Natl. Laboratory Ctr. For Appl.
Scientific Computing MS L-560, Livermore, CA 94550, United States
  Conference Title: Bioinformatics
  Conference Location: Atlantic City, NJ, United States   Conference Date:
20000227-20000303
  E.I. Conference No.: 58777
  Source: Information Sciences v 139 n 1-2 November 2001. p 3-17
  Publication Year: 2001
  CODEN: ISIJBC   ISSN: 0020-0255
  Language: English

  Title: **Experiences applying** meta - data **to bioinformatics**
  Author: **Critchlow, T.** ; Musick, R.; **Slezak, T.**
  ...Abstract: the pressure to find a solution is increasing. Realistically
addressing this problem, whether through a **data   warehouse ,**
multi-database, federated database, or other approach, requires
development of an scalable, flexible infrastructure that...
  ...meet user needs in this extremely dynamic environment. This is best
accomplished by extensively using **meta - data** to reduce the
application's maintenance costs. Using the DataFoundry project as an
example, this paper discusses the first steps and practical problems of
developing a **meta - data** -based infrastructure capable of meeting the
demands of an active scientific community. It also demonstrates...
  Descriptors: **Metadata** ; Biocommunications; Distributed database systems;
 Data   warehouses ; Multimedia systems

8/3,K/3   (Item 3 from file: 8)

05639196   E.I. No: EIP00085292796
  Title: **Detecting data and** schema **changes in scientific documents**
  Author: Adam, Nabil; Adiwijaya, Igg; **Critchlow, Terence** ; Musick, Ron

Title: **Detecting data and** schema **changes in scientific documents**
Author: Adam, Nabil; Adiwijaya, Igg; **Critchlow, Terence** ; Musick, Ron

Abstract: Data stored in a **data** **warehouse** must be kept consistent and
up-to-date with respect to the underlying information sources...

...entered into the warehouse. Another alternative, periodically reloading
from scratch, is obviously inefficient. When the **schema** of an information
source changes, all components that interact with, or make use of data...

...be updated to conform. The change detection problem is the problem of
detecting data and **schema** changes by comparing two versions of the same
semi-structured document. In this paper, we present an approach to
detecting data and **schema** changes for scientific documents. Scientific
data is of particular interest because it is normally stored as
semi-structured document, and suffers frequent **schema** updates. This paper
demonstrates the use of graph to represent scientific documents in
particular, and semi-structured documents in general as well as their
schema . It also demonstrates an approach to efficiently detect data and
schema changes by merging the detection with parsing the document. (Author
abstract) 19 Refs.
Identifiers: Scientific documents; **Data** **warehouse**

8/3,K/4 **(Item 4 from file: 8)**
DIALOG(R)File   8:Ei Compendex(R)

Title: **DataFoundry: information management for scientific data**
Author: **Critchlow, Terence** ; **Fidelis, Krzysztof** ; Ganesh, Madhavan;
Musick, Ron; **Slezak, Tom**

Author: **Critchlow, Terence** ; **Fidelis, Krzysztof** ; Ganesh, Madhavan;
Musick, Ron; **Slezak, Tom**
Abstract: **Data** **warehouses** and data marts have been successfully
applied to a multitude of commercial business applications. They...

...do not transfer to scientific environments. There are two primary
reasons for this difficulty. First, **schema** integration is more difficult
for scientific databases than for business sources, because of the
complexity...
...highly dynamic data representations (schemata). When a data source
participating in a warehouse changes its **schema** , both the mediator
transferring data to the warehouse and the warehouse itself need to be...

...while maintaining differences between data from different sources, and a
novel architecture and an extensive **meta - data** infrastructure, which
reduce the cost of maintaining a warehouse. (Author abstract) 15 Refs.
Identifiers: DataFoundry; **Data** **warehouses** ; Informatics; **Meta** **data**

8/3,K/5   (Item 5 from file: 8)

04463268   E.I. No: EIP96083261301
  Title: Design and implementation of a database for human genome research
  Author: Sargent, Rob; Fuhrman, Dave; **Critchlow, Terence** ; Di Sera, Tony;
Mecklenburg, Robert; Lindstrom, Gary; Cartwright, Peter
  Corporate Source: Univ of Utah, Salt Lake City, UT, USA
  Conference Title: Proceedings of the 1996 8th International Conference on
Scientific and Statistical Database Management
  Conference Location: Stockholm, Swed   Conference Date: 19960618-19960620
  E.I. Conference No.: 45072
  Source: Scientific and Statistical Database Management - Proceedings of
the International Working Conference 1996. IEEE, Los Alamitos, CA, USA. p
220-225
  Publication Year: 1996
  CODEN: 85QLA8
  Language: English

  Author: Sargent, Rob; Fuhrman, Dave; **Critchlow, Terence** ; Di Sera, Tony;
Mecklenburg, Robert; Lindstrom, Gary; Cartwright, Peter
  ...Abstract: of those notions as objects in an extended relational model;
(iii) expression of working database **schemas** as **meta   data** in
administration tables; (iv) population of the database through tables
dependent on the **meta   data** tables; and (v) implementation via a
conventional relational database management system. We explore two
advantages of this approach: the resulting representational flexibility,
and the reflective use of **meta   data** to accomplish **schema** evolution by
ordinary updates. Implementation and performance pragmatics of this work
are sketched, as well...
  Identifiers: Extended relational data model; Human genome research;
Schema evolution; **Meta   data** ; Genome informatics; Database **schemas** ;
Data evolvability

8/3,K/6   (Item 1 from file: 35)

01571559 ORDER NO: AAD97-26209
 SCHEMA **COERCION: USING DATABASE** META - INFORMATION **TO FACILITATE DATA
TRANSFER**
  Author: **CRITCHLOW, TERENCE JAMES**
  Degree: PH.D.
  Year: 1997
  Corporate Source/Institution: THE UNIVERSITY OF UTAH (0240)
  Source: VOLUME 58/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
          PAGE 1363. 159 PAGES

  SCHEMA **COERCION: USING DATABASE** META - INFORMATION **TO FACILITATE DATA
TRANSFER**
  Author: **CRITCHLOW, TERENCE JAMES**

     ...ability to quickly incorporate new and diverse data sources into
existing database systems becomes critical. **Schema** coercion addresses
this need by defining the mapping between databases as a collection of
mappings between corresponding constructs. This work defines a
comprehensive **schema** coercion tool: it transforms schemata into
corresponding ER representations, identifies correspondences between them,
and uses...
...between heterogeneous data sources. The approach advocated by this
dissertation associates confidences with correspondences, and **meta -
information** with schemata. This approach has successfully reduced the
amount of interaction required to define several...

8/3,K/7   (Item 1 from file: 65)

04526295   INSIDE CONFERENCE ITEM ID: CN047330567
Statistical Modeling of Large-Scale Simulation Data
  Eliassi-Rad, T.; **Critchlow, T.** ; Abdulla, G.
  CONFERENCE: ACM SIGKDD international conference on knowledge discovery
    and data mining-8th
  ACM SIGKDD INTERNATIONAL CONFERENCE ON KNOWLEDGE DISCOVERY AND DATA
  MINING, 2002; 8TH P: 488-494
  Association for Computing Machinery, 2002
  ISBN: 158113567X
  LANGUAGE: English DOCUMENT TYPE: Conference Papers
    CONFERENCE EDITOR(S): Hand, D.; Keim, D.; Ng, R.
    CONFERENCE SPONSOR: Association for Computing Machinery
    CONFERENCE LOCATION: Edmonton, Canada 2002; Jul (200207) (200207)

  Eliassi-Rad, T.; **Critchlow, T.** ; Abdulla, G.
  DESCRIPTORS: knowledge discovery; **data   mining** ; KDD

 8/3,K/8   (Item 2 from file: 65)

02534788   INSIDE CONFERENCE ITEM ID: CN026439284
 Meta - Data **Based Mediator Generation**
   Critchlow, T. ; Ganesh, M.; Musick, R.
  CONFERENCE: Cooperative information systems-International conference; 3rd
  PROCEEDINGS OF THE IFCIS INTERNATIONAL CONFERENCE ON COOPERATIVE
  INFORMATION SYSTEMS, 1998 P: 168-176
  IEEE Computer Society, 1998
  ISBN: 0818683805; 0818683821
  LANGUAGE: English DOCUMENT TYPE: Conference Papers
    CONFERENCE EDITOR(S): Halper, M.
    CONFERENCE SPONSOR: International Foundation on Cooperative Information
        Systems
    CONFERENCE LOCATION: New York, NY
    CONFERENCE DATE: Aug 1998 (199808) (199808)
  NOTE:
    Described as proceedings. Also known as CoopIS '98

 Meta - Data **Based Mediator Generation**
   Critchlow, T. ; Ganesh, M.; Musick, R.

 8/3,K/9   (Item 1 from file: 2)

6461834   INSPEC Abstract Number: C2000-02-6160D-012
 Title: **Practical lessons in supporting large-scale computational science**
  Author(s): Musick, R.; **Critchlow, T.**
  Author Affiliation: Center for Appl. Sci. Comput., Lawrence Livermore
Nat. Lab., CA, USA
  Journal: SIGMOD Record   vol.28, no.4   p.49-57
  Publisher: ACM,
  Publication Date: Dec. 1999 Country of Publication: USA
  CODEN: SRECD8 ISSN: 0163-5808
  SICI: 0163-5808(199912)28:4L.49:PLSL;1-5
  Material Identity Number: A660-2000-001
  Language: English
  Subfile: C
  Copyright 2000, IEE

  Author(s): Musick, R.; **Critchlow, T.**
  ...Descriptors: **data   mining** ;

8/3,K/10   (Item 1 from file: 144)

15329848   PASCAL No.: 02-0016178
Carrier dynamics of quantum well bistable lasers
  GANESH MADHAN M ; GUNASEKARAN N; VAYA P R
School of Electronics and Communication Engineering, Anna University,
Madras, India; Department of Electrical Engineering, Indian Institute of
Technology, Madras, India
  Journal: Fiber and integrated optics, 2001, 20 (5) 525-534
  Language: English

  GANESH MADHAN M ; GUNASEKARAN N; VAYA P R

French Descriptors: Laser semiconducteur; Etude theorique; **Schema**
  equivalent; Laser puits quantique; Puits quantique multiple; Hole burning
  ; Bistabilite; Hysteresis; Mobilite porteur charge; 4255P

8/3,K/11   (Item 1 from file: 34)

10015562   Genuine Article#: 473KK   No. References: 36
**Title: Normal forms and syntactic completeness proofs for functional
    independencies**
Author(s): Wijesekera D (REPRINT) ; Ganesh M ; Srivastava J; Nerode A
Corporate Source: George Mason Univ,Dept Informat & Software
    Engn,Fairfax//VA/22101 (REPRINT); George Mason Univ,Dept Informat &
    Software Engn,Fairfax//VA/22101; Gene Log Inc,Berkeley//CA/94704; Univ
    Minnesota,Dept Comp Sci,Minneapolis//MN/55455; Cornell Univ,Dept
    Math,Ithaca//NY/14853
Journal: THEORETICAL COMPUTER SCIENCE, 2001, V266, N1-2 (SEP 6), P365-405
ISSN: 0304-3975   Publication date: 20010906
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS
Language: English   Document Type: ARTICLE   (ABSTRACT AVAILABLE)

Author(s): Wijesekera D (REPRINT) ; Ganesh M ; Srivastava J; Nerode A

8/3,K/12   (Item 2 from file: 34)

04006121   Genuine Article#: QY638   No. References: 34
Title: MYRIAD - DESIGN AND IMPLEMENTATION OF A FEDERATED DATABASE PROTOTYPE
Author(s): LIM EP; HWANG SY; SRIVASTAVA J; CLEMENTS D; **GANESH M**
Corporate Source: UNIV MINNESOTA,DEPT COMP SCI,4-192 EE-CS BLDG,200 UNION
    ST SE/MINNEAPOLIS//MN/55455; UNIV MINNESOTA,DEPT COMP
    SCI/MINNEAPOLIS//MN/55455
Journal: SOFTWARE-PRACTICE & EXPERIENCE, 1995, V25, N5 (MAY), P533-562
ISSN: 0038-0644
Language: ENGLISH   Document Type: ARTICLE   (Abstract Available)

Author(s): LIM EP; HWANG SY; SRIVASTAVA J; CLEMENTS D; **GANESH M**

06041419   E.I. No: EIP02166923477
  Title: Using meta - data **to automatically wrap bioinformatics sources**
  Author: Buttler, David; **Critchlow, Terence**
  Corporate Source: College of Computing Georgia Institute of Technology,
Atlanta, GA 30332, United States
  Source: Information and Software Technology v 44 n 4 Mar 31 2002. p
237-239
  Publication Year: 2002
  CODEN: ISOTE7   ISSN: 0950-5849
  Language: English
  Document Type: JA; (Journal Article)   Treatment: T; (Theoretical)
  Journal Announcement: 0204W4
  Abstract: Currently there are a huge number of bioinformatics sources
available over the web. Accessing these sources manually is infeasible for
individual biologists. Our goal is to provide a single point of access for
scientists that will retrieve data from each applicable source. One
fundamental problem is automating the retrieval of data from each site. We
propose a **meta - data** description language to delineate both the steps
required to retrieve data, as well as the mechanisms necessary to access
the web site that contains the data. This description will enable the
automatic generation of wrappers that can extract the appropriate data.
Our **meta - data** language is based on DARPA Agent Markup Language-S
(DAML-S), extending the description to include a grounding which details
the mechanics of data access. copy 2002 Elsevier Science B.V. All rights
reserved. 8 Refs.
  Descriptors: **Metadata** ; Data acquisition; Websites; XML; HTTP; Semantics
  Identifiers: Bioinformatics; Data extractions
  Classification Codes:
  723.2 (Data Processing)
  723 (Computer Software, Data Handling & Applications)
  72 (COMPUTERS & DATA PROCESSING)

DIALOG(R)File   8:Ei Compendex(R)

05639196   E.I. No: EIP00085292796
  Title: **Detecting data and** schema **changes in scientific documents**
  Author: Adam, Nabil; Adiwijaya, Igg; **Critchlow, Terence** ; Musick, Ron
  Corporate Source: CIMIC - Rutgers Univ, Newark, NJ, USA
  Conference Title: ADL 2000: IEEE Advances in Digital Libraries
  Conference   Location: Washington,   DC,   USA   Conference   Date:
19000522-19000524
  Sponsor: IEEE Computer Society; The National Library of Medicine
  E.I. Conference No.: 57197
  Source: Proceedings   of the Forum on Research and Technology Advances in
Digital Libraries, ADL 2000. IEEE, Piscataway, NJ, USA. p 160-170
  Publication Year: 2000
  ISSN: 1092-9959
  Language: English
  Document Type: CA; (Conference Article)   Treatment: T; (Theoretical)
  Journal Announcement: 0010W1
  Abstract: Data stored in a **data   warehouse** must be kept consistent and
up-to-date with respect to the underlying information sources. By providing
the capability to identify, categorize and detect changes in these sources,
only the modified data needs to be transferred and entered into the
warehouse. Another alternative, periodically reloading from scratch, is
obviously inefficient. When the **schema** of an information source changes,
all components that interact with, or make use of data originating from
that source must be updated to conform. The change detection problem is the
problem of detecting data and **schema** changes by comparing two versions of
the same semi-structured document. In this paper, we present an approach to
detecting data and **schema** changes for scientific documents. Scientific
data is of particular interest because it is normally stored as
semi-structured document, and suffers frequent **schema** updates. This paper
demonstrates the use of graph to represent scientific documents in
particular, and semi-structured documents in general as well as their
schema . It also demonstrates an approach to efficiently detect data and
schema changes by merging the detection with parsing the document. (Author
abstract) 19 Refs.
  Descriptors: *Database systems; Data structures; Data reduction
  Identifiers: Scientific documents; **Data   warehouse**
  Classification Codes:
  723.3 (Database Systems); 723.2 (Data Processing)
  723 (Computer Software)
  72 (COMPUTERS & DATA PROCESSING)

DIALOG(R)File   8:Ei Compendex(R)

05544361   E.I. No: EIP00045151739
  Title: **DataFoundry: information management for scientific data**
  Author: **Critchlow, Terence** ; **Fidelis, Krzysztof** ; Ganesh, Madhavan;
Musick, Ron; **Slezak, Tom**
  Corporate Source: Lawrence Livermore Natl Lab, Livermore, CA, USA
  Source: IEEE Transactions on Information Technology in Biomedicine v 4 n
1 2000. p 52-57
  Publication Year: 2000
  CODEN: ITIBFX   ISSN: 1089-7771
  Language: English
  Document Type: JA; (Journal Article)   Treatment: A; (Applications); G;
(General Review)
  Journal Announcement: 0006W3
  Abstract: **Data   warehouses** and data marts have been successfully
applied to a multitude of commercial business applications. They have
proven to be invaluable tools by integrating information from distributed,
heterogeneous sources and summarizing this data for use throughout the
enterprise. Although the need for information dissemination is as vital in

science as in business, working warehouses in this community are scarce because traditional warehousing techniques do not transfer to scientific environments. There are two primary reasons for this difficulty. First, **schema** integration is more difficult for scientific databases than for business sources, because of the complexity of the concepts and the associated relationships. While this difference has not yet been fully explored, it is an important consideration when determining how to integrate autonomous sources. Second, scientific data sources have highly dynamic data representations (schemata). When a data source participating in a warehouse changes its **schema** , both the mediator transferring data to the warehouse and the warehouse itself need to be updated to reflect these modifications. The cost of repeatedly performing these updates in a traditional warehouse, as is required in a dynamic environment, is prohibitive. This paper discusses these issues within the context of the DataFoundry project, an ongoing research effort at Lawrence Livermore National Laboratory. DataFoundry utilizes a unique integration strategy to identify corresponding instances while maintaining differences between data from different sources, and a novel architecture and an extensive **meta** - **data** infrastructure, which reduce the cost of maintaining a warehouse. (Author abstract) 15 Refs.

   Descriptors: *Database systems; Information management; Natural sciences computing; Data structures; Information technology; Software prototyping; World Wide Web; File editors; Query languages; C (programming language)
   Identifiers: DataFoundry; **Data warehouses** ; Informatics; **Meta data**
   Classification Codes:
   723.1.1   (Computer Programming Languages)
   723.3   (Database Systems); 723.2   (Data Processing); 723.5   (Computer Applications); 723.1   (Computer Programming)
   723   (Computer Software)
   72   (COMPUTERS & DATA PROCESSING)

   8/9/6   (Item 1 from file: 35)
DIALOG(R)File   35:Dissertation Abs Online
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01571559   ORDER NO: AAD97-26209
 SCHEMA   **COERCION: USING DATABASE** META - INFORMATION **TO FACILITATE DATA TRANSFER**
   Author: **CRITCHLOW, TERENCE JAMES**
   Degree: PH.D.
   Year: 1997
   Corporate Source/Institution: THE UNIVERSITY OF UTAH (0240)
   Source: VOLUME 58/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
             PAGE 1363.   159 PAGES
   Descriptors: COMPUTER SCIENCE
   Descriptor Codes: 0984

     As more information becomes available, the ability to quickly incorporate new and diverse data sources into existing database systems becomes critical. **Schema** coercion addresses this need by defining the mapping between databases as a collection of mappings between corresponding constructs. This work defines a comprehensive **schema** coercion tool: it transforms schemata into corresponding ER representations, identifies correspondences between them, and uses these correspondences to generate a program that automatically transfers data between the databases. In addition to creating a useful tool, this work addresses the significant theoretical problems associated with resolving representational and semantic conflicts between heterogeneous data sources. The approach advocated by this dissertation associates confidences with correspondences, and **meta** - **information** with schemata. This approach has successfully reduced the amount of interaction required to define several coercions, including a complex coercion between diverse genetics databases.

```
Set      Items    Description
S1         703    DATAMIN? OR DATAFOUNDR? OR DATAMART? OR DATA()(MINE? OR MI-
                  NING OR FOUNDR? OR MART? OR WAREHOUSE?) OR DATAWARE?
S2      423438    TRANSFORM? OR TRANSLAT? OR MAP OR MAPPING OR MAPS OR MAPPED
S3     1453361    API OR PROGRAM()INTERFACE? OR MEDIATOR?  OR TOOL? ? OR AGE-
                  NT?
S4     1767124    WRAPPER? OR LAYER?
S5          73    UML OR UNIFIED()MODEL?()LANGUAGE?
S6          45    S1 AND (METADATA? OR META()(DATA OR INFORMATION? OR FORMAT-
                  ?) OR METAINFORMATION? OR SCHEMA? ? OR TEMPLATE?)
S7        1382    S5 OR XML OR EXTENSIB?()MARKUP()LANGUAGE
S8           0    S5 AND S6
S9          94    S2 AND S1
S10         17    S9 AND S3
S11          1    S9 AND S4
S12         18    S6 AND (S2 OR S3 OR S7)
S13      28912    (S1 OR METADATA? OR META()(DATA OR INFORMATION? OR FORMAT?)
                  OR METAINFORM? OR SCHEMA? ? OR TEMPLATE?)
S14         14    S13 AND S2 AND S3 AND S4
S15         10    S13 AND S5
S16         57    S10 OR S11 OR S12 OR S14 OR S15
S17         37    S16 AND IC=G06F?
S18         37    IDPAT (sorted in duplicate/non-duplicate order)
File 344:Chinese Patents Abs Aug 1985-2003/Mar
         (c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Feb(Updated 030603)
         (c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200341
         (c) 2003  Thomson Derwent
```

DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014006355   **Image available**
WPI Acc No: 2001-490569/200154
Related WPI Acc No: 2002-705322
XRPX Acc No: N01-363049
  **Dynamic discovery of a data model for database management systems, in
  which consumer applications can be customized for accessing privacy data**
Patent Assignee: NCR INT INC (NATC)
Inventor: CHAPRA J M; GRIMMER F G
Number of Countries: 026 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 1089200	A2	20010404	EP 2000308507	A	20000928	200154	B
JP 2001188804	A	20010710	JP 2000338276	A	20001002	200154	

Priority Applications (No Type Date): US 99410533 A 19991001
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1089200	A2	E	13	G06F-017/30	

    Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
    LI LT LU LV MC MK NL PT RO SE SI

JP 2001188804	A		33	G06F-017/30	

Abstract (Basic): EP 1089200 A2
      NOVELTY - Method comprises the steps of accepting a privacy
  information request from a client, retrieving privacy **metadata**
  describing the selected privacy information, **translating** the privacy
  information request to a **data warehouse** -compliant query using the
  privacy information **metadata** , and transmitting the query to the **data
  warehouse** .
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
  following:
      (a) apparatus for providing access to privacy information stored;
      (b) program storage device
      USE - For database management systems.
      ADVANTAGE - Consumer can access to personal data and privacy
  preferences stored in a suitable **data warehouse** that can be used
  for a wide variety of changeable physical data models, changing privacy
  business rules, and evolving consumer applications.
      DESCRIPTION OF DRAWING(S) - The diagram shows the system
      client (204)
      consumer access application (202)
      privacy **metadata** subsystem (214)
      pp; 13 DwgNo 2/5
Title Terms: DYNAMIC; DISCOVER; DATA; MODEL; DATABASE; MANAGEMENT; SYSTEM;
  CONSUME; APPLY; CAN; CUSTOMISATION; ACCESS; PRIVATE; DATA
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
International Patent Class (Additional): **G06F-001/00 ; G06F-012/00 ;
  G06F-012/14**
File Segment: EPI

DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

06961239   **Image available**
MANAGEMENT METHOD FOR DATA BASE CONTAINING PRIVACY INFORMATION AND DEVICE
THEREFOR

PUB. NO.:   2001-188804 [JP 2001188804 A]
PUBLISHED: July 10, 2001 (20010710)
INVENTOR(s): GRIMMER FRANCINE G
              CHAPRA JOHN MARK

APPLICANT(s): NCR INTERNATL INC
APPL. NO.:   2000-338276 [JP 2000338276]
FILED: October 02, 2000 (20001002)
PRIORITY: 99 410533 [US 99410533], US (United States of America),
               October 01, 1999 (19991001)
INTL CLASS: G06F-017/30 ; G06F-012/00 ; G06F-012/14

                            ABSTRACT
PROBLEM TO BE SOLVED: To provide client access to private data spreadable
corresponding to a privacy rule.

SOLUTION: A privacy **metadata** sub system 214 communicatively coupled to a
data   warehouse 212 for retrieving privacy **metadata** and a consumer
access sub system 206 are provided. A consumer access subsystem receives
the request of privacy information from a client, **translates** the request
to a **data   warehouse** compliant query, transmits the query to the **data
warehouse** and transfers data responding to the query to the client.

 18/5/3   (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

012365584   **Image available**
WPI Acc No: 1999-171691/199915
XRPX Acc No: N99-125714
   System design tool **for data warehousing** – transforms **data based on
   matching of contents in** schema   template **from business model**
Patent Assignee: NTT DATA TSUSHIN KK (NITE)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 11025126   A   19990129 JP 97197909   A   19970708 199915 B

Priority Applications (No Type Date): JP 97197909 A 19970708
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 11025126   A   14 G06F-017/30

Abstract (Basic): JP 11025126 A
       NOVELTY – A transducer (6) **transforms** an existing system data for
   data warehousing, and matches existing system data item with a **schema
   template** , based on operator's input and forms **transformation** code
   automatically. The operator confirms the contents of each item of model
   table group from business model and dictionary. DETAILED DESCRIPTION –
   The **schema   template** has real time business model stored in memory
   (3-5). A data dictionary relating to model attribute and contents of
   items, is displayed. An INDEPENDENT CLAIM is included for method of
   data warehousing.
       USE – For data warehousing.
       ADVANTAGE – Data warehousing is performed easily. Facilitates
   development of **data   warehouse** . DESCRIPTION OF DRAWING(S) – The
   figure shows block diagram showing structure of **data   warehouse**
   design and manufacturing system. (3-5) Memory; (6) Transducer.
       Dwg.1/11
Title Terms: SYSTEM; DESIGN; **TOOL** ; DATA; WAREHOUSE; **TRANSFORM** ; DATA;
   BASED; MATCH; CONTENT; **TEMPLATE** ; BUSINESS; MODEL
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

 18/5/4   (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

06083612   **Image available**
SYSTEM DESIGN **TOOL** AND **DATAWARE** HOUSE DESIGN SYSTEM AND METHOD

PUB. NO.:   11-025126 [JP 11025126 A]
PUBLISHED: January 29, 1999 (19990129)
INVENTOR(s):   NISHIMURA KAZUHIRO
                MIYAGAWA MUNEHIRO
APPLICANT(s):   N T T DATA KK
APPL. NO.:   09-197909 [JP 97197909]
FILED: July 08, 1997 (19970708)
INTL CLASS: **G06F-017/30**

                              ABSTRACT
PROBLEM TO BE SOLVED: To provide a **dataware** house designing/manufacturing
system capable of easily designing/manufacturing a developable **dataware**
house.

SOLUTION: The proposed system is constituted of storage/display parts 3 to
5 for respectively storing and displaying a business model constituted of a
model obtained by representing business as an object around data entity, a
 schema   template constituted of a model table group obtained by
projecting a business model to a real world, and a data dictionary
indicating the contents of attributes and items of the model and the
 schema   template and a conversion part 6 for converting data in an
existing system into **dataware** . The conversion part 6 allows data items in
the existing system to correspond to data items in the **schema   template**
in accordance with an operator's instruction and automatically forms a
conversion code. Thus the operator can check the contents of respective
items of a model table group from the business model and the data
dictionary.

 18/5/5   (Item 5 from file: 350)

015378843   **Image available**
WPI Acc No: 2003-439781/200341
XRPX Acc No: N03-350970
  **Visual modeling technique for implementation of database system, involves
  displaying** map **and cost for project implementation after creating** map
  of relationships between content, application and project phases
Patent Assignee: BROBST S A (BROB-I); NAIK O (NAIK-I); REDD E R (REDD-I)
Inventor: BROBST S A; NAIK O; REDD E R
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 20030055837 A1 20030320 US 2001300967   P   20010626 200341 B
                             US 2002179811   A   20020626

Priority Applications (No Type Date): US 2001300967 P 20010626; US
  2002179811 A 20020626
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 20030055837 A1   11 G06F-007/00   Provisional application US 2001300967

Abstract (Basic): US 20030055837 A1
        NOVELTY - Information about data forming content of database,
    applications that access database and the phases in which the database
    implementation will occur are gathered to create a **map** of
    relationships among content, applications and project phases, and the
    cost for project implementation is calculated. The **map** and calculated
    costs are presented to human user through a graphical display.
        DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
    visual modeling **tool** .
        USE - For implementation of large database systems e.g. **data**

warehouses .
        ADVANTAGE - Allows iterative refinement of project phasing and
    design in an intuitive way.
        DESCRIPTION OF DRAWING(S) - The figure shows a block diagram
    showing a visual modeling **tool** and several information sets serving
    as its input/output.
        pp; 11 DwgNo 2/5
Title Terms: VISUAL; TECHNIQUE; IMPLEMENT; DATABASE; SYSTEM; DISPLAY; **MAP**
    ; COST; PROJECT; IMPLEMENT; AFTER; **MAP** ; RELATED; CONTENT; APPLY;
    PROJECT; PHASE
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

 18/5/6   (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

015365237   **Image available**
WPI Acc No: 2003-426175/200340
XRPX Acc No: N03-340493
   **Automatic graphical user interface program generation method involves
   generating GUI program by embedding content of signature in interface
   file at blank portion of** template **file using GUI** template **program**
Patent Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 2003140893 A   20030516 JP 2001337715   A   20011102 200340 B

Priority Applications (No Type Date): JP 2001337715 A 20011102
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 2003140893 A   13 G06F-009/44

Abstract (Basic): JP 2003140893 A
        NOVELTY - The graphical user interface (GUI) program (50) is
    generated by embedding the content of signature described in an
    interface file (40) at the blank portion of a **template** file using a
    GUI **template** program (30), based on operation object data described
    by an XML file (20).
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
    following:
        (1) automatic graphical user interface program generation
    apparatus;
        (2) GUI **template** program; and
        (3) recorded medium storing GUI **template** program.
        USE - For automatically generating graphical user interface (GUI)
    program from **Unified Modeling Language** (**UML**) design package.
        ADVANTAGE - Enables to automatically generate the GUI program.
        DESCRIPTION OF DRAWING(S) - The figure shows the diagram explaining
    the generation of GUI program from a **UML** design package using the
    automatic GUI program generation apparatus. (Drawing includes
    non-English language text).
        XML file (20)
        GUI **template** program (30)
        interface file (40)
        graphical user interface program (50)
        pp; 13 DwgNo 1/15
Title Terms: AUTOMATIC; GRAPHICAL; USER; INTERFACE; PROGRAM; GENERATE;
    METHOD; GENERATE; PROGRAM; EMBED; CONTENT; SIGNATURE; INTERFACE; FILE;
    BLANK; PORTION; **TEMPLATE** ; FILE; **TEMPLATE** ; PROGRAM
Derwent Class: T01; T04
International Patent Class (Main): **G06F-009/44**
International Patent Class (Additional): **G06F-003/00**
File Segment: EPI

015341180   **Image available**
WPI Acc No: 2003-402118/200338
XRPX Acc No: N03-320735
   Schema **for structured query language statement, has abstract class
   having properties to indicate parameter marker name and to indicate
   whether expression representing result column is displayed as portion of
   result table**
Patent Assignee: IBM CANADA LTD (IBMC); INT BUSINESS MACHINES CORP (IBMC
)
Inventor: LAU C P; MAH E W
Number of Countries: 002 Number of Patents: 002
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 20030037039 A1   20030220 US 2002143992   A   20020510   200338 B
CA 2355418   A1   20030216 CA 2355418   A   20010816   200338

Priority Applications (No Type Date): CA 2355418 A 20010816
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 20030037039 A1   24 G06F-007/00
CA 2355418   A1 E   G06F-017/30

Abstract (Basic): US 20030037039 A1
      NOVELTY - The **schema** (102,104,106) comprises an abstract class
   including property for indicating parameter marker name for the
   structured query language (SQL) expression. A property is included in
   the abstract class, for indicating whether an expression representing a
   result column, is to be displayed as a portion of result table.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
   following:
      (1) database querying and updating tool;
      (2) structured query language statement object-oriented
   description;
      (3) object-oriented programming language implementation device;
      (4) structured query language statement representation generation
   method;
      (5) computer readable medium storing program for manipulating
   database; and
      (6) structured query language statement representation modification
   method.
      USE - **Schema** such as **unified modeling language (UML)
   schema** for structured query language (SQL) statements.
      ADVANTAGE - Provides a level of abstraction between the database
   and a tool for manipulating the data in the database, and the need to
   be aware of the internal representation of structured query language
   statements, is eliminated.
      DESCRIPTION OF DRAWING(S) - The figure shows a class diagram of
   UML   schema .
       schema (102,104,106)
      pp; 24 DwgNo 1/15
Title Terms: STRUCTURE; QUERY; LANGUAGE; STATEMENT; ABSTRACT; CLASS;
   PROPERTIES; INDICATE; PARAMETER; MARK; NAME; INDICATE; EXPRESS; REPRESENT
   ; RESULT; COLUMN; DISPLAY; PORTION; RESULT; TABLE
Derwent Class: T01
International Patent Class (Main): **G06F-007/00 ; G06F-017/30**
International Patent Class (Additional): **G06F-009/44**
File Segment: EPI

015321254   **Image available**
WPI Acc No: 2003-382189/200336
XRPX Acc No: N03-305312
Generating higher-level representation of program source code by parsing to create new class and obtain meta - data
Patent Assignee: BRASSARD M (BRAS-I); KHRISS I (KHRI-I); CODAGEN
  TECHNOLOGIES INC (CODA-N)
Inventor: BRASSARD M; KHRISS I
Number of Countries: 101 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200336469	A2	20030501	WO 2002CA1620	A	20021025	200336	B
US 20030083900	A1	20030501	US 2001330642	P	20011026	200340	
			US 2002279726	A	20021025		

Priority Applications (No Type Date): US 2001330642 P 20011026; US
  2002279726 A 20021025
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200336469	A2	E	147	G06F-009/44	

    Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
    CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
    IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
    OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN
    YU ZA ZM ZW
    Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
    GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW
US 20030083900 A1   G06F-017/60   Provisional application US 2001330642

Abstract (Basic): WO 200336469 A2
      NOVELTY - Method consists in parsing the program source code to
  obtain **metadata** for determination of a business logic, translating
  the source code into parameterised source code, extracting
  infrastructure code, and building the higher-level representation using
  the business logic and infrastructure code. The **metadata** is a
  package, class name, class or component attribute, method signature
  etc. The higher level representation comprises generation **templates** ,
  is edited and is a **UML** model represented as a class diagram with
  specification data.
      DETAILED DESCRIPTION - There are INDEPENDENT CLAIMS for:
      (1) A method of program code re-engineering
      (2) An apparatus for generating a higher-level representation of
  program source code
      (3) An apparatus for re-engineering program code
      (4) A computer program for generating a higher-level representation
  pf program source code
      USE - Method is for reverse engineering source code of a
  component-based application.
      ADVANTAGE - Method enables post-development analysis of existing
  component-based source code.
      DESCRIPTION OF DRAWING(S) - The figure shows the generic process
  for reverse engineering and re-engineering of component source code.
      pp; 147 DwgNo 1/90
Title Terms: GENERATE; HIGH; LEVEL; REPRESENT; PROGRAM; SOURCE; CODE; PARSE
  ; NEW; CLASS; OBTAIN; META; DATA
Derwent Class: T01
International Patent Class (Main): **G06F-009/44 ; G06F-017/60**
File Segment: EPI

 18/5/9   (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

015319478   **Image available**
WPI Acc No: 2003-380413/200336
XRPX Acc No: N03-303816
    Meta data **storing** schema **for relational database applications, has**

abstract class including properties for indicating generic structured query language data type for members
Patent Assignee: IBM CANADA LTD (IBMC); INT BUSINESS MACHINES CORP (IBMC)
Inventor: SLUIMAN H
Number of Countries: 002   Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030028511	A1	20030206	US 2001998704	A	20011130	200336	B
CA 2354437	A1	20030131	CA 2354437	A	20010731	200336	

Priority Applications (No Type Date): CA 2354437 A 20010731
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030028511	A1		21	G06F-007/00	
CA 2354437	A1	E		G06F-017/30	

Abstract (Basic): US 20030028511 A1
NOVELTY - An abstract class defining data types of members of a relational database table (102) includes properties for indicating generic structured query language data type for members, and properties for indicating database specific data type name for the members. The class also includes methods for constructing objects instantiated from derived classes.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) serialized stream of **meta data** ;
(2) storage system;
(3) database catalog;
(4) tool for creating and editing databases;
(5) method for creating databases;
(6) object-oriented description of relational database;
(7) computer-readable medium storing relational database description program;
(8) method of facilitating sharing of relational database types; and
(9) computer system.
USE - For storing **meta data** that describes relational databases.
ADVANTAGE - The **meta data** storing **schema** can be used in both database vendor environments and toolkit vendor environments, thereby facilitating the sharing of relational database types. Also by describing the **schema** in a standard modeling language, even among multiple implementations of storage systems designed according to the scheme, the conceptual scheme and understanding of each storage system can be the same.
DESCRIPTION OF DRAWING(S) - The figure shows the class diagram of the **UML schema** .
rotational database table (102)
pp; 21 DwgNo 1/13
Title Terms: META; DATA; STORAGE; RELATED; DATABASE; APPLY; ABSTRACT; CLASS ; PROPERTIES; INDICATE; STRUCTURE; QUERY; LANGUAGE; DATA; TYPE; MEMBER
Derwent Class: T01
International Patent Class (Main): **G06F-007/00 ; G06F-017/30**
File Segment: EPI

 18/5/10   (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

015310295   **Image available**
WPI Acc No: 2003-371229/200335
XRPX Acc No: N03-296099
 Proprietary information utility for software and medical applications, has repository containing different categories of proprietary information within different domains and security system limiting access to proprietary information
Patent Assignee: ENGBERG A I (ENGB-I); SCHRECKENGAST J O (SCHR-I)

Inventor: ENGBERG A I; SCHRECKENGAST J O
Number of Countries: 001   Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 20030028651 A1   20030206 US 2001919153   A   20010731 200335 B

Priority Applications (No Type Date): US 2001919153 A 20010731
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 20030028651 A1   12 G06F-015/16

Abstract (Basic): US 20030028651 A1
        NOVELTY - A repository contains different categories of proprietary
    information within different domains which are available to single user
    and multiple users in response to acquiring a license, respectively. A
    security system limits access to the proprietary information through
    application services. A billing system tracks usage of proprietary
    information for billing purposes.
        DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for
    proprietary information utility interaction method.
        USE - For providing services for health care, to create patent
    disclosures, manage pending patent, manage research log and/or research
    existing patent,diagnosis service in medical field, and providing for
    services such as decision support software, software for trouble
    shooting products, system configuration services, diagnostic services,
    planning services, selection services, authoring **tools** for generating
    software models, learning services for **data - mining** and outgoing
    evolution of models, business intelligence services, version management
    services, presentation services, brokering services, stock selection
    services, investment portfolio trouble shooting services, investment
    portfolio selection services, services to trouble shoot devices,
    failure and behavior predicting services, purchasing decision services,
    consulting services, skills gap analysis services, **translating**
    services for **translating** decision support models, enterprise resource
    planning services and customer relationship management services in
    computer industry and manufacturing industry and also for other
    industries.
        ADVANTAGE - Provides highly reliable services, while preventing the
    proprietary information from being copied without service provider's
    permission, thereby enhances safety, facilitates customization,
    continuous update, access and incorporation and separation and control.

        DESCRIPTION OF DRAWING(S) - The figure shows the proprietary
    information utility interaction method.
        pp; 12 DwgNo 1/3
Title Terms: INFORMATION; UTILISE; SOFTWARE; MEDICAL; APPLY; REPOSITORY;
  CONTAIN; CATEGORY; INFORMATION; DOMAIN; SECURE; SYSTEM; LIMIT; ACCESS;
  INFORMATION
Derwent Class: S05; T01; T05; W01
International Patent Class (Main): **G06F-015/16**
File Segment: EPI

 18/5/11   (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

015186594   **Image available**
WPI Acc No: 2003-247127/200324
Related WPI Acc No: 2002-426756; 2002-489452; 2002-489959; 2002-546528;
  2003-102923; 2003-209187; 2003-298669
XRAM Acc No: C03-063526
XRPX Acc No: N03-196376
  **Analysis of molecules comprises enabling user-provided software
  application to access data structures, including providing applications
  programming interface and employing code libraries**
Patent Assignee: AFFYMETRIX INC (AFFY-N)
Inventor: BARTELL D M; BERNHART D; NIJOR R S; ZEWDE W

Abstract (Basic): US 20020147512 A1
     NOVELTY - Analyzing molecules comprises enabling a user-provided
software application to access data structures including providing
applications programming interface (**API**) and employing code libraries
to enable transfer of user data from the user-provided software
application directly or indirectly to the data structures which store
pixel data and intermediate results.
     DETAILED DESCRIPTION - Analyzing molecules comprises:
     (a) directing an excitation beam to pixel locations on a probe
array having probe locations including probe molecules;
     (b) detecting an emission signal having emission values and
responsive to the excitation beam;
     (c) generating pixel data based on the emission values;
     (d) analyzing the pixel data to generate intermediate results;
     (e) storing the pixel data and intermediate results in data
structures; and
     (f) enabling a user-provided software application to access data
structures including providing applications programming interface and
employing code libraries to enable transfer of user data from the
user-provided software application directly or indirectly to the data
structures.
     INDEPENDENT CLAIMS are included for:
     (a) an applications programming interface or a computer program
product comprising code libraries constructed and arranged to enable
transfer of user data from a user-provided software application
directly or indirectly to data structure(s);
     (b) a method for enabling a user-provided software application to
access data structure(s) by providing code libraries constructed and
arranged to enable transfer of user data from the user-provided
software application directly or indirectly to the data structure(s);
compiling a first executable code from a code library; and calling the
first executable code from the user-provided software;
     (c) a software development kit for providing an application
programmer with an interface to a laboratory information management
system (LIMS) having data structure(s) having a first format,
comprising input **API** to provide the application programmer a first
set of parameters for inputting user data in a second format to a
user-provided software application wherein the second format is
independent of the first format;and
     (d) a system comprising a computer having memory unit(s); an
information management system application constructed and arranged for
execution on the computer; probe arrays; and code libraries constructed
and arranged to enable transfer of user data from a user-provided
software application directly or indirectly to data structure(s) stored
in the memory unit.
     USE - For analyzing molecules.
     ADVANTAGE - The invention allows access and management of
biological data generated by scanning arrays of biological materials.
     DESCRIPTION OF DRAWING(S) - The figure shows a functional block
diagram of LIMS server.
     pp; 17 DwgNo 2/6
Title Terms: ANALYSE; MOLECULAR; COMPRISE; ENABLE; USER; SOFTWARE; APPLY;
  ACCESS; DATA; STRUCTURE; APPLY; PROGRAM; INTERFACE; EMPLOY; CODE

Derwent Class: B04; D16; S03; S05; T01
International Patent Class (Main): **G06F-017/00**
File Segment: CPI; EPI

 18/5/12   (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015136727   **Image available**
WPI Acc No: 2003-197253/200319
XRPX Acc No: N03-156546
  Logical and physical data model generation for data   warehouse ,
  involves constructing data   warehouse **according to physical database
  design and data description language obtained from physical data model**
Patent Assignee: NCR CORP (NATC)
Inventor: FINK R
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 6490590   B1   20021203 US 2000503251   A   20000214   200319 B

Priority Applications (No Type Date): US 2000503251 A 20000214
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 6490590   B1   11 G06F-017/30

Abstract (Basic): US 6490590 B1
      NOVELTY - A logical data model is created based on business rule
  metadata ,   transformation , cleansing **metadata** using which a
  physical data model is created. A **data   warehouse** is constructed
  according to physical database design and data description language.
  The data are moved from data sources into database management system
  for **transforming ,** cleansing, householding **metadata** which are then
  loaded into the **data   warehouse .**
      DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for
  computer system for generating logical and physical data models.
      USE - For generating logical and physical data model for **data
  warehouse .**
      ADVANTAGE - Reduces the amount of effort and duplication of data
  during creation of **data   warehouse .** Data can be automatically
  extracted from data sources and **data   warehouses .** Achieves complete
  reproducibility of the **data   warehouse .**
      DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
  computer system generating physical and logical data models.
      pp; 11 DwgNo 2/3
Title Terms: LOGIC; PHYSICAL; DATA; MODEL; GENERATE; DATA; WAREHOUSE;
  CONSTRUCTION; DATA; WAREHOUSE; ACCORD; PHYSICAL; DATABASE; DESIGN; DATA;
  DESCRIBE; LANGUAGE; OBTAIN; PHYSICAL; DATA; MODEL
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

 18/5/13   (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015067598   **Image available**
WPI Acc No: 2003-128114/200312
Related WPI Acc No: 2003-039624; 2003-039625; 2003-039627; 2003-119687;
  2003-199406
XRPX Acc No: N03-101714
  Data   mining **algorithm selection method in computer, involves** mapping
  **calculated metafeatures defining case probability density function to
  selected** data   mining **algorithm**
Patent Assignee: KIL D (KILD-I)
Inventor: KIL D

Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020138492	A1	20020926	US 2001274008	P	20010307	200312	B
			US 2001992435	A	20011116		

Priority Applications (No Type Date): US 2001274008 P 20010307; US
  2001992435 A 20011116
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020138492	A1		28	G06F-007/00	Provisional application US 2001274008

Abstract (Basic): US 20020138492 A1
      NOVELTY - The training metafeatures defining case probability
   density functions, are calculated for **data** **mining** analysis of a
   data set. A **data** **mining** algorithm is selected from a training
   database for **mapping** the calculated metafeatures to the selected
   data **mining** algorithm.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
   following:
      (1) **Data** **mining** algorithm selecting program;
      (2) **Data** **mining** system; and
      (3) **Data** **mining** application.
      USE - For selecting **data** **mining** algorithm using computer.
      ADVANTAGE - Enables **mapping** the selected **data** **mining**
   algorithm to probability density function describing metafeatures,
   without any additional **layer** of bureaucracy. Allows the user to grasp
   the **data** **mining** algorithm and explore algorithm optimization
   parameters, and thereby allows the user to obtain large selection of
   data **mining** algorithm, thereby improving overall **data** **mining**
   performance.
      DESCRIPTION OF DRAWING(S) - The figure shows the flowchart
   illustrating the **data** **mining** algorithm.
      pp; 28 DwgNo 2/13
Title Terms: DATA; MINE; ALGORITHM; SELECT; METHOD; COMPUTER; **MAP** ;
  CALCULATE; DEFINE; CASE; PROBABILITY; DENSITY; FUNCTION; SELECT; DATA;
  MINE; ALGORITHM
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

 18/5/14   (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

015027892   **Image available**
WPI Acc No: 2003-088409/200308
 Method for developing xml document
Patent Assignee: ITCAMP CO LTD (ITCA-N); KIM H J (KIMH-I); PARK C M
  (PARK-I); PARK S W (PARK-I)
Inventor: KIM H J; PARK C M; PARK S W
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
KR 2002061888	A	20020725	KR 20012968	A	20010118	200308	B

Priority Applications (No Type Date): KR 20012968 A 20010118
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2002061888	A		1	G06F-009/06	

Abstract (Basic): KR 2002061888 A
      NOVELTY - A method for developing an XML(eXtensible Markup
   Document) document is provided to support a developer with two steps of
   designing a **schema** and developing an XML application program by
   applying the XML **schema** and automatically generating an XML storage
   medium **schema** and a DOM(Document Object Model) API(Application

Program Interface) from the XML **schema** .
        DETAILED DESCRIPTION - The method comprises the steps of generating
the **schema** including the conditions of the XML application program,
generating the XML **schema** suitable to an object type of the **schema** ,
generating an RDB(Relational DataBase) using the XML **schema** ,
generating an interface using the RDB **schema** , and developing the XML
application program using the application interface. The **schema**
generation comprises the steps of designing a diagram including the
conditions of the application program, making a class object
corresponding to the XSCS(XML **Schema** Class Set) by receiving an
attribute and an element necessary for the diagram, and adding the
class object to an object list of an **UML** (**Unified Modeling
Language**) modeler.
        pp; 1 DwgNo 1/10
Title Terms: METHOD; DEVELOP; DOCUMENT
Derwent Class: T01
International Patent Class (Main): **G06F-009/06**
File Segment: EPI

 18/5/15   (Item 15 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014997936   **Image available**
WPI Acc No: 2003-058451/200305
Related WPI Acc No: 2002-732993
XRAM Acc No: C03-014946
XRPX Acc No: N03-045354
    **Identifying inter-relationships of genetic loci to detect genetic
    interactions in complex-trait diseases in, e.g. humans, comprises using
    multidimensional** data   mining
Patent Assignee: INTELLIDAT CORP (INTE-N)
Inventor: BALMAIN A; HEALEY L A; REIJERSE F
Number of Countries: 100 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
WO 200280079   A2   20021010   WO 2002IB2079   A   20020328   200305   B

Priority Applications (No Type Date): US 2001279320 P 20010328
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
WO 200280079 A2 E   42 G06F-019/00
    Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
    CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
    IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
    OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU
    ZA ZM ZW
    Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
    IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

Abstract (Basic): WO 200280079 A2
        NOVELTY - Inter-relationships of genetic loci are identified by:
        (a) assembling data comprising phenotype, genotype, or
identification information, for subjects;
        (b) setting a result data set comprising values for each data
field;
        (c) evaluating the data for each subject;
        (d) comparing all data fields possessing the result data set; and
generating data rule(s) comprising a list of data fields common to the
subject(s).
        DETAILED DESCRIPTION - Identifying interrelationships of genetic
loci involves assembling data comprising phenotype, genotype, or
identification information, for subjects. A result data set is then
provided comprising values for each data field. The data for each
subject is then evaluated. All data fields for each subject possessing
the result data set are compared. Data rule(s) is then generated, each
of which includes a list of data fields common to the subject(s). The

common data fields have identically valued data with corresponding data fields in each subject possessing the result data set.

USE - The method is used for identifying interrelationships of genetic loci, e.g. detection of genetic interactions in complex traits diseases in plant, organism, or animal, including mice and human.

It is also for diagnosis of a phenotype of subject by evaluating genetic loci from the subject for the presence or absence of a specified genetic rule.

It is also used in high resolution **mapping** of genetic loci related to a given phenotype by:

(i) further calculating the frequency of occurrence of each data field which is present in the generated data rules;

(ii) identifying which calculated data fields contain a value corresponding to a genetic marker;

(iii) selecting the calculated marker data fields with a high frequency of occurrence; and

(iv) matching the selected data fields with the corresponding genetic loci for the marker of the data field (claimed).

ADVANTAGE - The inventive method enables:

(a) **mapping** of multiple weak genetic variants within the genome that affect disease resistance or susceptibility;

(b) the identification of specific combinations (rules) of interacting genetic loci that are associated with disease susceptibility;

(c) identification of separate interactions involving resistance and susceptibility genes even when casual variants are located closely together on the same chromosomes;

(d) identification of all individuals who carry these specific combinations of alleles and have or do not have the disease;

(e) high resolution **mapping** and identification of the individual genes involved in the disease;

(f) detection of the genetic interactions related to the disease;

(g) application of the rules as a diagnostic **tool** ; and

(h) the design of the precise, genetically-targeted treatments for disease.

DESCRIPTION OF DRAWING(S) - The figure illustrates a **data mining** process.

pp; 42 DwgNo 12/16

Title Terms: IDENTIFY; INTER; RELATED; GENETIC; LOCUS; DETECT; GENETIC; INTERACT; COMPLEX; TRAIT; DISEASE; HUMAN; COMPRISE; MULTIDIMENSIONAL; DATA; MINE

Derwent Class: B04; D16; T01

International Patent Class (Main): **G06F-019/00**

File Segment: CPI; EPI

 18/5/16   (Item 16 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014997561   **Image available**
WPI Acc No: 2003-058076/200305
XRPX Acc No: N03-045092
  Connection tool **for business-to-business electronic commerce, extracts and formats information from** XML **documents to be compatible with** data warehouse
Patent Assignee: CHEW K T (CHEW-I); TOSUN C (TOSU-I); SAPMARKETS INC (SAPM-N)
Inventor: CHEW K T; TOSUN C
Number of Countries: 100 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020143644	A1	20021003	US 2001825004	A	20010403	200305	B
WO 200282707	A2	20021017	WO 2002US10325	A	20020403	200305	

Priority Applications (No Type Date): US 2001825004 A 20010403
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes

US 20020143644 A1   9 G06F-017/24
WO 200282707 A2 E   H04L-000/00
      Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
      CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
      IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
      OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU
      ZA ZM ZW
      Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
      IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

Abstract (Basic): US 20020143644 A1
      NOVELTY - A server manages extraction of information from **XML**
   documents received from an electronic marketplace based on document
   subscriptions. A listener interface forms an interface between the
   server and outputs of the connection **tool** . An extraction **schema**
   extracts and formats the information to be compatible with a **data
   warehouse** .
      DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for
   electronic marketplace.
      USE - Connection **tool** for extracting information from **XML**
   documents residing in electronic market place (claimed) for **data
   warehouse** system for enabling business-to-business electronic
   commerce.
      ADVANTAGE - The connection **tool** easily manages deployment of
   multiple **XML** listeners, hence simplifies maintenance of the **tool** .
      DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
   the connection **tool** .
      pp; 9 DwgNo 1/4
Title Terms: CONNECT; **TOOL** ; BUSINESS; BUSINESS; ELECTRONIC; EXTRACT;
   FORMAT; INFORMATION; DOCUMENT; COMPATIBLE; DATA; WAREHOUSE
Derwent Class: T01
International Patent Class (Main): **G06F-017/24** ; H04L-000/00
File Segment: EPI

 18/5/17   (Item 17 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014918011   **Image available**
WPI Acc No: 2002-738718/200280
   Distributed different database search method using xmi
Patent Assignee: UNIV INHA (UYIN-N)
Inventor: PARK S U; YOO S B
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
KR 2002045328 A   20020619 KR 200074751   A   20001208 200280 B

Priority Applications (No Type Date): KR 200074751 A 20001208
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
KR 2002045328 A   1 G06F-017/30

Abstract (Basic): KR 2002045328 A
      NOVELTY - A distributed different database search method using a
   XMI(XML **Metadata** Interchange) is provided to search a position of a
   GIS(Geographic Information System) DB and a **schema** relating to the
   position.
      DETAILED DESCRIPTION - Each GIS DB(10,20,30) encodes the
   information into a XML(extensible Markup Language) document of a XMI
   format by using a XMI conversion program after expressing an
   independent DB **schema** as a **UML** (**Unified Modeling Language**). IF
   a URL(Uniform Resource Locator) of each XML file is registered to a
   meta search server(40), the server stores each DB **schema** information
   extracted from the XMI file by a XML parser in a XMI DB(50). If the
   user connecting to the server requests a GIS information search, the
   server dynamically generates an SQL(Structured Query Language) query

matching to each DB **schema** by inquiring to the XMI DB and displays a
result of the query to the user.
　　　pp; 1 DwgNo 1/10
Title Terms: DISTRIBUTE; DATABASE; SEARCH; METHOD
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

　18/5/18　　(Item 18 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003　Thomson Derwent. All rts. reserv.

014884616　　**Image available**
WPI Acc No: 2002-705322/200276
Related WPI Acc No: 2001-490569
XRPX Acc No: N02-555948
　Computer-implemented privacy information access method involves
　retrieving privacy metadata **for transmitting privacy information**
　request to data　warehouse
Patent Assignee: NCR CORP (NATC　)
Inventor: CHAPRA J M; GRIMMER F G
Number of Countries: 001　Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6438544	B1	20020820	US 98102832	A	19981002	200276	B
			US 99410533	A	19991001		

Priority Applications (No Type Date): US 98102832 P 19981002; US 99410533 A
　19991001
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6438544	B1		13	G06F-017/30	Provisional application US 98102832

Abstract (Basic): US 6438544 B1
　　　NOVELTY - A privacy information request is accepted from a client
　and the privacy information is selected from a group having personal
　data and privacy preference. The privacy **metadata** describing selected
　privacy information is retrieved and used to **translate** the privacy
　information request into a **data　warehouse** query.
　　　DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
　following:
　　　(1) Privacy information access providing apparatus;
　　　(2) Storage device storing privacy information access program;
　　　(3) Privacy information changes accepting method; and
　　　(4) Privacy information changes accepting apparatus.
　　　USE - For providing client access to private data according to
　privacy rules.
　　　ADVANTAGE - The access to personal data and privacy preference
　stored in **data　warehouse** is provided efficiently, thereby
　interpretation of data models and privacy rules is performed
　efficiently.
　　　DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
　the privacy information access system.
　　　pp; 13 DwgNo 2/5
Title Terms: COMPUTER; IMPLEMENT; PRIVATE; INFORMATION; ACCESS; METHOD;
　RETRIEVAL; PRIVATE; TRANSMIT; PRIVATE; INFORMATION; REQUEST; DATA;
　WAREHOUSE
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

　18/5/19　　(Item 19 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003　Thomson Derwent. All rts. reserv.

014752613　　**Image available**
WPI Acc No: 2002-573317/200261

XRPX Acc No: N02-454231
    Unified   modeling   language **object identification in web- based**
    applications, involves traversing object tree to find UML   **object name**
    for each XML object having and not having name for storing XML IDs in
    conversion object
Patent Assignee: UNISYS CORP (BURS)
Inventor: BAISLEY D E; KUMAR C S
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 6408311   B1   20020618 US 99345290   A   19990630 200261 B

Priority Applications (No Type Date): US 99345290 A 19990630
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 6408311   B1   23 G06F-017/30

Abstract (Basic): US 6408311 B1
        NOVELTY - An extensible mark-up language file (XML) is parsed into
    XML objects and object tree is built. The object tree is traversed and
    for each XML object having and non-having name, an **unified   modeling**
     language   (**UML**) object name is found. XML object IDs are stored, as
    parsing result in conversion object (145).
        DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for
    recorded medium storing **UML**   object identification program.
        USE - For identifying **UML**   object in XML file used for web- based
    application such as web commerce, publishing, repository, modeling,
    database and **data   warehouse** , service, financial, healthcare,
    semiconductor, inventory access, etc.
        ADVANTAGE - XML and **UML**   IDs are stored automatically, when object
    tree is traversed for each XML object name which matches with **UML**
    object name.
        DESCRIPTION OF DRAWING(S) - The figure shows a schematic diagram
    illustrating a partial storage map in memory of conversion objects that
    identify and link the XML and repository objects.
        Conversion object (145)
        pp; 23 DwgNo 13/13
Title Terms: UNIFIED; LANGUAGE; OBJECT; IDENTIFY; WEB; BASED; APPLY;
  TRAVERSE; OBJECT; TREE; FINDER; OBJECT; NAME; OBJECT; NAME; STORAGE;
  CONVERT; OBJECT
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

 18/5/20   (Item 20 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014652866   **Image available**
WPI Acc No: 2002-473570/200251
XRPX Acc No: N02-373908
    Data   warehouse **has single** meta   data **catalog connected to database**
  modeling unit, reporting tool **and extracting and storing unit**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BALL G M
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
GB 2368679   A   20020508 GB 200110495   A   20010430 200251 B

Priority Applications (No Type Date): US 2000585882 A 20000531
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
GB 2368679   A   7 G06F-017/30

Abstract (Basic): GB 2368679 A
        NOVELTY - An extracting and storing unit (14) stores data extracted

from a database. A single **meta   data** catalog (20) is coupled to a
database modeling unit (12), the extracting and storing unit and a
reporting **tool** (16) which formats results of inquiries of stored
data.
   USE - **Data   warehouse** .
   ADVANTAGE - The **meta   data** catalog has functionality to allow
changes to the data model quickly and globally when needed in very
large databases. The **data   warehouse** is suited to run on any
computer which supports an open database connect (ODBC) interface to
data   warehouse . The developer can quickly model a new database to
create database definition and to use captured information in a variety
of reporting methods.
   DESCRIPTION OF DRAWING(S) - The figure shows the **data   warehouse**
   .
   Database modeling unit (12)
   Extracting and storing unit (14)
   Reporting **tool** (16)
   Single **meta   data** catalog (20)
   pp; 7 DwgNo 1/1
Title Terms: DATA; WAREHOUSE; SINGLE; META; DATA; CATALOGUE; CONNECT;
  DATABASE; UNIT; REPORT; **TOOL** ; EXTRACT; STORAGE; UNIT
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

 18/5/21   (Item 21 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014604510   **Image available**
WPI Acc No: 2002-425214/200245
XRPX Acc No: N02-334348
  **Message communication system for computer system, has adapters to
  translate messages in respective protocols into common protocol and
  engine to apply rules to messages received**
Patent Assignee: ARIA SOLUTIONS INC (ARIA-N)
Inventor: CHURCH R J; PERKINS M N; ROBERTS N
Number of Countries: 002 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020038309	A1	20020328	US 2001682416	A	20010830	200245	B
CA 2356781	A1	20020228	CA 2356781	A	20010830	200245	
CA 2318287	A1	20020228	CA 2318287	A	20000830	200245	

Priority Applications (No Type Date): CA 2318287 A 20000830
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020038309	A1		15	G06F-007/00	
CA 2356781	A1	E		H04L-029/06	
CA 2318287	A1	E		G06F-017/60	

Abstract (Basic): US 20020038309 A1
   NOVELTY - Two or more adapters translate messages in the respective
protocols received from the corresponding external systems into a
common messaging protocol and transmit the translated messages to an
engine. A set rules are applied to the messages received in the common
messaging protocol, by the engine and transmitted to the corresponding
external systems. The engine applies a set of rules to the received
messages.
   USE - For communication between computer systems in real time, for
client applications such as computer telephony integration (CTI).
   ADVANTAGE - Allows any functionality to be added to the Argon
administration client by changing the portal adapter **schema** . Enables
to integrate with a Windows client application by simply embedding a
client service control into the client service application.
   DESCRIPTION OF DRAWING(S) - The figure shows a **UML** object diagram
illustrating the general engine adapter model.

pp; 15 DwgNo 1/8
Title Terms: MESSAGE; COMMUNICATE; SYSTEM; COMPUTER; SYSTEM; TRANSLATION;
  MESSAGE; RESPECTIVE; COMMON; PROTOCOL; ENGINE; APPLY; RULE; MESSAGE;
  RECEIVE
Derwent Class: T01; W01
International Patent Class (Main): **G06F-007/00 ; G06F-017/60 ;**
  H04L-029/06
International Patent Class (Additional): H04L-012/16; H04M-003/493;
  H04M-011/06
File Segment: EPI

 18/5/22   (Item 22 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014254064   **Image available**
WPI Acc No: 2002-074764/200210
XRPX Acc No: N02-055167
  Data transformation **method for database management system, involves
  invoking** transformation **program** transforming **source data, to generate
  target data using program** template **parameters, under control of
  business view**
Patent Assignee: DAUDENARDE J P (DAUD-I); INT BUSINESS MACHINES CORP (IBMC
)
Inventor: DAUDENARDE J P
Number of Countries: 001 Number of Patents: 002
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 20010049694 A1   20011206   US 9872505   A   19980126 200210 B
                                US 99226557   A   19990107
US 6418450   B2   20020709   US 9872505   A   19980126 200253
                                US 99226557   A   19990107

Priority Applications (No Type Date): US 9872505 P 19980126; US 99226557 A
  19990107
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 20010049694 A1   23 G06F-012/00   Provisional application US 9872505

US 6418450   B2   G06F-017/30   Provisional application US 9872505

Abstract (Basic): US 20010049694 A1
       NOVELTY - Program **template** containing parameters is retrieved,
  and the business view is invoked with the retrieved program **template** .
  A **transformation** program that **transforms** source data, is invoked to
  generate target data, using predetermined parameters of program
  template , based on control of business view.
       DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
  following:
       (a) Data **transformation** apparatus;
       (b) Computer readable storage medium storing data **transformation**
  program
       USE - For **transformation** of data in relational database
  management system (RDBMS) in several factories.
       ADVANTAGE - Enables user to define reusable **templates** that enable
  user to provide user-specific parameters to **data warehouse** program.

       DESCRIPTION OF DRAWING(S) - The figure shows the block diagram
  illustrating exemplary hardware environment.
       pp; 23 DwgNo 1/15
Title Terms: DATA; **TRANSFORM** ; METHOD; DATABASE; MANAGEMENT; SYSTEM;
  INVOKE; **TRANSFORM** ; PROGRAM; **TRANSFORM** ; SOURCE; DATA; GENERATE; TARGET
  ; DATA; PROGRAM; **TEMPLATE** ; PARAMETER; CONTROL; BUSINESS; VIEW
Derwent Class: T01
International Patent Class (Main): **G06F-012/00 ; G06F-017/30**
File Segment: EPI

014189463   **Image available**
WPI Acc No: 2002-010160/200201
XRPX Acc No: N02-008501
   Metadata **based data analysis system for data warehousing, loads data
  stored in source databases into respective destination databases, based
  on technical and business model information of** metadata
Patent Assignee: IAF CONSULTING INC (IAFC-N)
Inventor: AONO H; FUKUSHIMA M; ITO A
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20010037228	A1	20011101	US 2000202181	A	20000505	200201	B
			US 2001840860	A	20010425		

Priority Applications (No Type Date): US 2000202181 P 20000505; US
  2001840860 A 20010425
Patent Details:

Patent No	Kind Lan Pg	Main IPC	Filing Notes
US 20010037228	A1 12	G06F-017/60	Provisional application US 2000202181

Abstract (Basic): US 20010037228 A1
      NOVELTY - A management system (102) comprises a **mapping** unit
  which **maps** schemata of source databases (100A-100C), measures
  dimensions of **metadata** (101) based on its technical information. A
  modeling unit manipulates business model information of **metadata** . A
  loading unit loads data in source databases into respective destination
  databases (103A,103B) for analysis, based on technical and model
  information.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
  following:
      (a) Data analysis method;
      (b) Commands execution apparatus for using **metadata** ;
      (c) Computer program product
      USE - For multidimensional data analysis in data warehousing for
  business applications.
      ADVANTAGE - Allows user to conduct sophisticated data analysis
  independently of schemata of source and destination databases and
  without need for programming. Allows user to access all information
  stored in **data   warehouse** in more economical and time efficient
  manner.
      DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
  metadata based data analysis system.
      Source databases (100A-100C)
       Metadata (101)
      Management system (102)
      Destination databases (103A,103B)
      pp; 12 DwgNo 1/5
Title Terms: BASED; DATA; ANALYSE; SYSTEM; DATA; WAREHOUSE; LOAD; DATA;
  STORAGE; SOURCE; RESPECTIVE; DESTINATION; BASED; TECHNICAL; BUSINESS;
  MODEL; INFORMATION
Derwent Class: T01
International Patent Class (Main): **G06F-017/60**
File Segment: EPI

014086583   **Image available**
WPI Acc No: 2001-570797/200164
Related WPI Acc No: 2002-048856
XRPX Acc No: N01-425366

Legacy computer data modification method for e-commerce applications, involves data relationship to Extensible Markup Language **format**

Patent Assignee: ELECTRONIC DATA SYSTEMS CORP (ELDA-N)
Inventor: BALLANTYNE A M; HINES L M; SMITH M K
Number of Countries: 022   Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200167289	A2	20010913	WO 2001US7177	A	20010307	200164	B
AU 200140068	A	20010917	AU 200140068	A	20010307	200204	
EP 1269344	A2	20030102	EP 2001914712	A	20010307	200310	
			WO 2001US7177	A	20010307		

Priority Applications (No Type Date): US 2000522277 A 20000309
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200167289	A2	E	52	G06F-017/00	

    Designated States (National): AU JP
    Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
    MC NL PT SE TR

AU 200140068	A			G06F-017/00	Based on patent WO 200167289
EP 1269344	A2	E		G06F-017/00	Based on patent WO 200167289

    Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
    LU MC NL PT SE TR

Abstract (Basic): WO 200167289 A2
        NOVELTY - The method provides **Extensible Markup Language** (**XML**) output by modifying underlying legacy program applications (16) to report data in **XML** format. A code generation engine (24) creates modified applications (18) by using a **mapping** engine (26) that generates modification specification and context table (22) by **mapping** a model (28) of write operations of the legacy system to an **XML schema** (32).
        DETAILED DESCRIPTION - A writer engine (20) is called by the modified program applications to write **XML** output in the format of the **XML** scheme encoded by the context table.
        INDEPENDENT CLAIMS are also included for the following:
        (1) A system for outputting data in a **XML** format.
        (2) A method for outputting data from a legacy computer system in **XML** format.
        USE - The system can be used in different e-commerce applications such as storing reports in a **data warehouse** , Enterprise Application Integration (EAI) middleware for transfer of data between applications, Electronic Bill Presentation and Payment (EBPP), bill archiving and business intelligence.
        ADVANTAGE - The system automatically modifies legacy computer system program applications to enable them to directly produce **XML** versions of outputted data. This enables an **XML** output to be directly available without a **transformation** of the data itself from a legacy computer format. Underlying program logic and business rules remain unaltered so that the functions of the legacy computer do not need to change. This enables a business enterprise greater accessibility to **XML** data without affecting computed values. Modification of the underlying legacy applications is less expensive, complex and time-consuming than **transformation** of the legacy system output into a **XML** format. The writer engine and context table ensure that a command to write an embedded **XML** function will include tags to previous functions and therefore produce an **XML** output that has the correct syntax. **Tool** support manages the modelling of the underlying program logic resulting in less time to modify the legacy system to the **XML** output. The direct generation of **XML** formatted data from legacy computer system reduces friction in information networks by making the transfer of information simpler. This reduces the cost of tracking information and reduces the time required to gather business intelligence. Customers can automatically analyze suppliers for Vendor Relationship Management (VRM) and suppliers can automatically analyze customers for Customers Relationship Management (CRM). Manufactures can automatically analyze markets for their products for Market Intelligence.

DESCRIPTION OF DRAWING(S) - The block diagram represents a code
generation system networked to a legacy computer system.
    Legacy program applications (16)
    Modified legacy program applications (18)
    Writer engine (20)
    Context table (22)
    Code generation engine (24)
    Mapping engine (26)
    Modeling engine (28)
    XML schema (32)
    pp; 52 DwgNo 1/8
Title Terms: COMPUTER; DATA; MODIFIED; METHOD; APPLY; DATA; RELATED; EXTEND
; LANGUAGE; FORMAT
Derwent Class: T01
International Patent Class (Main): **G06F-017/00**
File Segment: EPI

18/5/25   **(Item 25 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014037158   **Image available**
WPI Acc No: 2001-521371/200157
XRPX Acc No: N01-386290
  **Hierarchically structured data displaying system for graphical user
interface includes editor which uses filter definer to define filter
options for generation of source code**
Patent Assignee: CODAGEN TECHNOLOGIES CORP (CODA-N)
Inventor: BRASSARD M; SHINGAROV B
Number of Countries: 095   Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200108002	A2	20010201	WO 2000CA841	A	20000724	200157	B
AU 200061440	A	20010213	AU 200061440	A	20000724	200157	
BR 200012706	A	20020409	BR 200012706	A	20000724	200232	
			WO 2000CA841	A	20000724		
EP 1208426	A2	20020529	EP 2000947719	A	20000724	200243	
			WO 2000CA841	A	20000724		
CN 1364259	A	20020814	CN 2000810757	A	20000724	200280	
JP 2003505785	W	20030212	WO 2000CA841	A	20000724	200321	
			JP 2001513029	A	20000724		

Priority Applications (No Type Date): US 99145207 P 19990723
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200108002	A2	E	42	G06F-009/00	

    Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
    CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
    KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
    RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
    Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
    IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200061440	A			G06F-009/00	Based on patent WO 200108002
BR 200012706	A			G06F-009/00	Based on patent WO 200108002
EP 1208426	A2	E		G06F-009/44	Based on patent WO 200108002

    Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
    LI LT LU LV MC MK NL PT RO SE SI

CN 1364259	A			G06F-009/44	
JP 2003505785	W		54	G06F-009/44	Based on patent WO 200108002

Abstract (Basic): WO 200108002 A2
    NOVELTY - An editor (120) uses a filter definer (123) to define the
filter options for the generation of a source code. A context definer
(121) communicates with a context identifier (125) to assign a display
characteristic (124) to each context variable. The editor sends the
template to a display (126) which uses the display characteristics to
display the parametric and non-parametric components of the **template** .

DETAILED DESCRIPTION - The editor is used to enter and modify the **template** . The editor uses the context identifier to introduce the context variables and the parametric components. The context definer uses a hierarchy information definer (122) to obtain information concerning the context of the **template** . The context can be obtained from e.g. a **UML** modeling tool. Optionally, a script generator (127) uses the **templates** , the filter options and the context parameters to generate the script data. INDEPENDENT CLAIMS are also included for the following:
    (a) a hierarchically structured data displaying method;
    (b) a hierarchically structured data transforming method;
    (c) and a hierarchically structured data transforming system.
    USE - For graphical user interface.
    ADVANTAGE - Enables programmers to produce **templates** that are visually clear and efficient. Allows clear identification of repetitive and nested code. Requires minimum programmer intervention to obtain desired source code **templates** . Allows programmer to produce and edit generation **templates** in form visually close to generation output.
    DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of a display and translation system.
    Editor (120)
    Context definer (121)
    Hierarchy information definer (122)
    Filter definer (123)
    Display characteristic (124)
    Context identifier (125)
    Display (126)
    Script generator (127)
    pp; 42 DwgNo 5/16
Title Terms: HIERARCHY; STRUCTURE; DATA; DISPLAY; SYSTEM; GRAPHICAL; USER; INTERFACE; EDIT; FILTER; DEFINE; FILTER; OPTION; GENERATE; SOURCE; CODE
Derwent Class: T01
International Patent Class (Main): **G06F-009/00 ; G06F-009/44**
File Segment: EPI

18/5/26   **(Item 26 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014017748   **Image available**
WPI Acc No: 2001-501962/200155
Related WPI Acc No: 2000-663743; 2001-158032
XRPX Acc No: N01-372257
   Computer implemented mapping **for** data mining , **involves determining X position coordinate of 2D camera within 2D overview, based on orientation between 3D camera position and reference object in 3D partial hierarchy**
Patent Assignee: SILICON GRAPHICS INC˙ (SILI-N)
Inventor: TESLER J D
Number of Countries: 001   Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6259451	B1	20010710	US 97813347	A	19970307	200155	B
			US 97845426	A	19970425		

Priority Applications (No Type Date): US 97813347 A 19970307; US 97845426 A 19970425
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6259451	B1		46	G06F-015/00	Div ex application US 97813347

Abstract (Basic): US 6259451 B1
    NOVELTY - The X,Y,Z positional coordinates of three-dimensional camera which views 3D partial hierarchy are determined. The Z-coordinate is **mapped** into Y-coordinate of a 2D camera. The orientation between position of 3D camera and reference object in 3D partial hierarchy is determined, based on which the X-coordinate of the

2D camera position in the 2D overview is determined.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(a) Computer graphics system;
(b) Computer program product
USE - Used for data visualization and **data mining** in computer and networking technology.
ADVANTAGE - The computer implemented method and computer program product for data visualization optimizes visualization of entire three dimensional hierarchies. The parent nodes are not forced apart to make room for child nodes in all lower levels in the generation of partial hierarchies.
DESCRIPTION OF DRAWING(S) - The figure shows the screen display of an example hierarchy or tree data visualization **tool** .
pp; 46 DwgNo 28/39
Title Terms: COMPUTER; IMPLEMENT; **MAP** ; DATA; MINE; DETERMINE; POSITION; COORDINATE; CAMERA; BASED; ORIENT; CAMERA; POSITION; REFERENCE; OBJECT; HIERARCHY
Derwent Class: T01
International Patent Class (Main): **G06F-015/00**
File Segment: EPI

 18/5/27   (Item 27 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014006335   **Image available**
WPI Acc No: 2001-490549/200154
Related WPI Acc No: 2001-345710; 2001-490550
XRPX Acc No: N01-363029
Metadata **model** transformation **apparatus for** transforming   metadata **model used in reporting system that manages multiple databases**
Patent Assignee: COGNOS INC (COGN-N)
Inventor: RASMUSSEN G D
Number of Countries: 025 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 1081610	A2	20010307	EP 2000307549	A	20000901	200154	B

Priority Applications (No Type Date): CA 2281331 A 19990903
Patent Details:

Patent No	Kind Lan Pg	Main IPC	Filing Notes
EP 1081610	A2 E 72	G06F-017/30	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): EP 1081610 A2
NOVELTY - The **metadata** model has multiple **layers** including a lower **layer** containing one or more lower abstraction model objects having a lower abstraction level, and a higher **layer** containing one or more higher abstraction model objects having a higher abstraction level. The **transformations transform** the model objects from the lower to higher **layer** .
DETAILED DESCRIPTION - **Transformations** are provided for **transforming** a **metadata** model that contains model objects. The **metadata** model has multiple **layers** including a lower **layer** containing one or more lower abstraction model objects having a lower abstraction level and a higher **layer** containing one or more higher abstraction model objects having a higher abstraction level. The **transformations transform** the model objects from the lower **layer** to the higher **layer** . INDEPENDENT CLAIMS are included for; a **metadata** model **transformer** ; a method for **transforming** a **metadata** model for containing model objects.
USE - **Transforming** a **metadata** model which are used within a reporting system that manages a number of relational databases.
ADVANTAGE - Enables building of **metadata** model which provides information that can be shared by multiple users who use different

business intelligence **tools** or client applications.
        DESCRIPTION OF DRAWING(S) - The drawing shows a diagram of a
    metadata model.
        pp; 72 DwgNo 1/41
Title Terms: MODEL; **TRANSFORM** ; APPARATUS; **TRANSFORM** ; MODEL; REPORT;
  SYSTEM; MANAGE; MULTIPLE
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

  18/5/28   (Item 28 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

013997831
WPI Acc No: 2001-482046/200152
XRPX Acc No: N01-356754
    Data   mart **generation for database management in on-line transaction
  processing involves generating table access, creation and manipulation
  commands and query mechanism interface based on** data   mart   schema
Patent Assignee: E.PIPHANY INC (EPIP-N)
Inventor: LITVAK E; MCCASKEY J P; RASSEN J A; RAUER A; SHELAT A A
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 6189004   B1   20010213 US 9873753   A   19980506 200152 B

Priority Applications (No Type Date): US 9873753 A 19980506
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 6189004   B1   126 G06F-017/30

Abstract (Basic): US 6189004 B1
        NOVELTY - A set of table creation and another set of table access
    and manipulation commands corresponding to semantic measuring of **data
    mart   schema** are generated from accessed **schema** definition. A
    query mechanism interface is generated from accessed query mechanism
    description and **schema** description.
        DETAILED DESCRIPTION - The **schema** is defined by semantic meanings
    describing **transformation** of data between various sources and the
    data   mart . A description of query mechanism interface is generated
    in the **data   mart** . An INDEPENDENT CLAIM is also included for **data
    mart** querying system.
        USE - For database creation loading and accessing in on-line
    transaction processing.
        ADVANTAGE - Users are provided with quicker data access. The **data
    mart** is consistent and flexibly for every query. Changes in database
    are automatically carried, hence implementation by hand is not
    required.
        DESCRIPTION OF DRAWING(S) - The figure describes user interface
    used to define a **schema** , build a **data   mart** load and query the
    data   mart .
        pp; 126 DwgNo 0/36
Title Terms: DATA; GENERATE; DATABASE; MANAGEMENT; LINE; TRANSACTION;
  PROCESS; GENERATE; TABLE; ACCESS; CREATION; MANIPULATE; COMMAND; QUERY;
  MECHANISM; INTERFACE; BASED; DATA
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

  18/5/29   (Item 29 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

013725861   **Image available**
WPI Acc No: 2001-210091/200121

XRPX Acc No: N01-150023
   Computer network system has telephony service with a service resource
   consumed by the agent **and an** agent **server mediating usage while**
   service wrapper **monitoring consumption**
Patent Assignee: GEN MAGIC (GEMA-N)
Inventor: LANGE D; NELSON B; SU J; WHITE J E
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 6163794   A   20001219 US 98178366   A   19981023 200121 B

Priority Applications (No Type Date): US 98178366 A 19981023
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 6163794   A   33 G06F-015/16

Abstract (Basic): US 6163794 A
        NOVELTY - System comprises a telephony service, an **agent** using
     it, a service resource consumed by the **agent** and an **agent** server
     mediating usage. A service **wrapper** monitors consumption of the
     service resource by the **agent** and the **agent** server charges the
     principal for it. A service permission specifies how much the **agent**
     can consume of e.g. a telephone call time or cost. The **wrapper**
     translates between instruction sets and a user interface allows the
     user to create, modify or delete an **agent** **template** .
        USE - System is for computer e-mail and telephony provision.
        ADVANTAGE - System can be extended or customized according to user
     requirements, can admit user programmed **agents** and enables third
     parties to modify existing **agents** and create them.
        DESCRIPTION OF DRAWING(S) - The drawing shows a user-extensible
     network system.
        pp; 33 DwgNo 1/17
Title Terms: COMPUTER; NETWORK; SYSTEM; TELEPHONE; SERVICE; SERVICE;
   RESOURCE; CONSUME; **AGENT ; AGENT** ; SERVE; SERVICE; WRAP; MONITOR;
   CONSUME
Derwent Class: T01; W01
International Patent Class (Main): **G06F-015/16**
File Segment: EPI

   18/5/30   (Item 30 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

013491689   **Image available**
WPI Acc No: 2000-663632/200064
XRPX Acc No: N00-491658
   Graphical user interface for data mining **object designing, extracts**
   specific data mining **parameter using GUI** templates **, based on which**
   sequential mining objects are selected and combined with sub-objects
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: MEDL R E
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 6108004   A   20000822 US 97955402   A   19971021 200064 B

Priority Applications (No Type Date): US 97955402 A 19971021
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 6108004   A   22 G06F-013/00

Abstract (Basic): US 6108004 A
        NOVELTY - The types of main and sub mining objects are classified
     and indicated in the main menu interface. Several context based
     graphical user interface (GUI) **template** series are produced. The
     specific **data** **mining** parameter is extracted using the **templates** .
     Specific sequential mining objects are selected and combined with

sub-objects to produce executable data profile.
        DETAILED DESCRIPTION - The main and sub data objects are classified
based on the discretization, mining, name **mapping** , processing
results, sequence, statistics and taxonomy. The GUI **templates** are
selected using various sequential and selection conditions. By
selecting the suitable sequential objects, sub-objects are manipulated
graphically. INDEPENDENT CLAIMS are also included for the following:
        (a) computer based executable mining object developing method;
        (b) executable mining object developing system;
        (c) computer program for use with GUI
        USE - For designing of **data mining** objects using computer
system in LAN.
        ADVANTAGE - Facilitates storage of selected sequence data, due to
formation of object sequences, thereby quick updation of various
parameters relevant to external variances is enabled.
        DESCRIPTION OF DRAWING(S) - The figure shows the main window
indicating the directory listing of **data mining** objects.
        pp; 22 DwgNo 1/9
Title Terms: GRAPHICAL; USER; INTERFACE; DATA; MINE; OBJECT; DESIGN;
  EXTRACT; SPECIFIC; DATA; MINE; PARAMETER; **TEMPLATE** ; BASED; SEQUENCE;
  MINE; OBJECT; SELECT; COMBINATION; SUB; OBJECT
Derwent Class: T01
International Patent Class (Main): **G06F-013/00**
International Patent Class (Additional): **G06F-017/00**
File Segment: EPI

 18/5/31   (Item 31 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

013166783   **Image available**
WPI Acc No: 2000-338656/200029
XRPX Acc No: N00-254192
  System for managing information among distributed computer systems has
  agent **configured to accept information from several of management**
  systems and which maps **accepted information into database fields of**
  data   warehouse
Patent Assignee: CABLETRON SYSTEMS INC (CABL-N); DATTA U (DATT-I); GHANNAM
  J (GHAN-I); LEWIS L M (LEWI-I); LOOMIS T A (LOOM-I)
Inventor: DATTA U; GHANNAM J; LEWIS L; LOOMIS T; LEWIS L M; LOOMIS T A
Number of Countries: 022 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200013112	A1	20000309	WO 99US19963	A	19990831	200029	B
AU 9957975	A	20000321	AU 9957975	A	19990831	200031	
EP 1116138	A1	20010718	EP 99945366	A	19990831	200142	
			WO 99US19963	A	19990831		
US 20020188584	A1	20021212	US 9898576	A	19980831	200301	
			US 99386571	A	19990831		

Priority Applications (No Type Date): US 9898576 P 19980831; US 99386571 A
  19990831
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200013112	A1	E	59	G06F-017/30	

    Designated States (National): AU CA
    Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
    MC NL PT SE

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
AU 9957975	A			G06F-017/30	Based on patent WO 200013112
EP 1116138	A1	E		G06F-017/30	Based on patent WO 200013112

    Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
    LU MC NL PT SE

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020188584	A1			G06F-007/00	Provisional application US 9898576

Abstract (Basic): WO 200013112 A1
        NOVELTY - A data manager (210) accepts data from a number of
management systems and processes and stores the data in a **data**

warehouse (203). The data manager includes an **agent** (205,205) configured to accept information from the number of management systems and which **maps** the accepted information into database fields of the **data warehouse** . A database access unit (204) stores the accepted information in the **data warehouse** .

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:
(a) a method of managing information
(b) a computer program product comprising a computer readable medium having computer logic recorded on it

USE - In management of data among distributed computer systems for managing information.

ADVANTAGE - The **agent** deletes duplicate data received from more than one source while one of the number of management systems is a network management system. The database access unit utilizes a standard database interface to one or more proprietary **data warehouses** and a push **agent** configured to push data to the database access unit at a specified interval. The network management systems store different types of management information in network management databases to control how much information is to be stored in a local database. A filtering and scheduling interface allows users to decide what types of information they wish to replicate to the **data warehouse** and how often. The **data warehouse** stores object-oriented objects. The system integrates disparate data sources into the **data warehouse** by for example, performing data filtering, collation, compression, and **mapping** the data into database fields of the **data warehouse** .

DESCRIPTION OF DRAWING(S) - The drawing shows the system incorporating an embodiment of the present invention.

Data warehouse (203)
Database access unit (204)
Agent (205,206)
Data manager (210)
pp; 59 DwgNo 2/14

Title Terms: SYSTEM; MANAGE; INFORMATION; DISTRIBUTE; COMPUTER; SYSTEM; **AGENT** ; CONFIGURATION; ACCEPT; INFORMATION; MANAGEMENT; SYSTEM; **MAP** ; ACCEPT; INFORMATION; DATABASE; FIELD; DATA; WAREHOUSE
Derwent Class: T01
International Patent Class (Main): **G06F-007/00** ; **G06F-017/30**
File Segment: EPI

18/5/32   (Item 32 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

012839523
WPI Acc No: 2000-011355/200001
XRPX Acc No: N00-008729
Universal code generator e.g. for tagged templates
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
RD 426068	A	19991010	RD 99426068	A	19990920	200001	B

Priority Applications (No Type Date): RD 99426068 A 19990920
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
RD 426068	A		1	G06F-000/00	

Abstract (Basic): RD 426068 A
NOVELTY - The tool consists of a tag interpreter and a model navigator, with **UML** model and a **template** containing tags as input. Tags are replaced by corresponding model elements, e.g., class or attribute names. The tool does not concern itself with anything else in the **template** other than the tags. Therefor the tags can consist of code in any programming language and be an arbitrary document.
USE - For providing a universal code generator based on **templates** and design models.

ADVANTAGE - The **templates** can be easily changed, without
affecting the generation tool.
        pp; 1 DwgNo 0/1
Title Terms: UNIVERSAL; CODE; GENERATOR; TAG; **TEMPLATE**
Derwent Class: T01
International Patent Class (Main): **G06F-000/00**
File Segment: EPI

 18/5/33   **(Item 33 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

012827535   **Image available**
WPI Acc No: 1999-633767/199954
XRPX Acc No: N99-467984
  Database accessing system for object oriented language processing
Patent Assignee: MULLINS W (MULL-I); THOUGHT INC (THOU-N)
Number of Countries: 080 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9952044	A1	19991014	WO 98US5131	A	19980316	199954	B
AU 9886556	A	19991025	AU 9886556	A	19980407	200011	
			WO 98US5131	A	19980407		
JP 2000514229	W	20001024	JP 98549685	A	19980407	200058	
			WO 98US5131	A	19980407		
EP 1076863	A1	20010221	EP 98937922	A	19980407	200111	
			WO 98US5131	A	19980407		

Priority Applications (No Type Date): US 97822254 A 19970320; WO 98US5131 A
  19980316
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
WO 9952044   A1 E 34 G06F-017/30
    Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
    CZ DE DK EE ES FI GB GE HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU
    LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA
    UZ VN
    Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
    IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW
AU 9886556   A   G06F-017/30   Based on patent WO 9952044
JP 2000514229 W   28 G06F-012/00   Based on patent WO 9952044
EP 1076863   A1 E   G06F-017/30   Based on patent WO 9952044
    Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
    LU MC NL PT SE

Abstract (Basic): WO 9952044 A1
        NOVELTY - A specific application **program   interface** (**API**)
    (700) unpacks the data to effect instantiating object attributes and
    the object name into a new object. Another **API** (700) in communication
    with specific **API** and at least one database, has **meta   data   map**
    comprising at least one object name and provides content from database
    (302) corresponding to object attributes and **meta   data** (201).
        DETAILED DESCRIPTION - At least one object scheme (200) including
    the **meta   data** (201) corresponding to database **schema** (300), is
    created. An adaptor abstraction **layer** (600) has the application
    program   interface (**API**) (700) responsive to object application
    (101) including an application bridge which receives an object
    comprising object attributes and object name of object application. The
    interface extracts the object attributes and the object name from the
    object to effect packing of the object attributes and the object name,
    as data. The APIs comprise adapters (400,500), respectively. An
    INDEPENDENT CLAIM is also included for the data base accessing method
    for object oriented language.
        USE - For accessing database for object-oriented language
    processing.
        ADVANTAGE - The adaptor abstraction **layer** provides a consistent
    API for both object and non-object databases and thereby enables

application programmers to migrate between various object stores
without application modification. The adapter abstraction **layer** also
facilitates communication with a remotely available adapter of
interface without modifying the object application programming logic.
The object **schema** manager permits dynamic modification of object
schema without requiring modification or recompile of the object
application, to ensure that the object application clients are not
brittle. Allows for any changes of one object **schema** to be
transparently reflected to any client object application accessing and
using the object **schema** without the need for object application
modification or recompilation. Contemplates a notification mechanism so
that database modification resulting from requests in one location be
immediately communicated to all object application accessing that
object **schema** . Facilitates simple and rapid application development
and lowers maintenance cost by improving the flexibility of object
application and by reducing brittleness of object application clients.
Facilitates separation of database access code such as structured query
language (SQL) from the object application logic. Caches the **meta**
data for the class name in the memory of specific adaptor and saves
pre-compiled versions of the access code which can simply be
re-executed without recompile, and thereby provides improved
performance characteristics for successive accesses. Because all
adapters implement the same **API** , they are interchangeable in the
object application, providing new and useful functionality, even beyond
the subject implementation, without requiring object application
modification.
    DESCRIPTION OF DRAWING(S) - The figure shows database accessing
system in conjunction with a **schema** manager.
    Object application (101)
    Object **schema** (200)
    Meta **data** (201)
    Database **schema** (300)
    Database (302)
    Adapters (400,500)
    Adapter abstraction **layer** (600)
    API (700)
    pp; 34 DwgNo 1/1
Title Terms: DATABASE; ACCESS; SYSTEM; OBJECT; ORIENT; LANGUAGE; PROCESS
Derwent Class: T01
International Patent Class (Main): **G06F-012/00** ; **G06F-017/30**
File Segment: EPI

  18/5/34   **(Item 34 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

012784436   **Image available**
WPI Acc No: 1999-590662/199950
XRPX Acc No: N99-435651
  Neuroagent network of knowledge model engine in computer implemented
  data mining **system for use in field of business intelligence**
Patent Assignee: DATAMIND CORP (DATA-N)
Inventor: PHAM K M; PIFFERO V; RAJKOVIC E B
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No.	Kind	Date	Week	
US 5970482	A	19991019	US 96600229	A	19960212	199950	B

Priority Applications (No Type Date): US 96600229 A 19960212
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5970482	A		55	G06F-015/18	

Abstract (Basic): US 5970482 A
    NOVELTY - One or more connections are formed between the input
neuroagents and output neuroagents. The excitation level of the output
neuroagent is a summation of the stimulation functions associated with

the connections formed with the contextual excitation zone of that output neuroagent.

DETAILED DESCRIPTION - Each connection of the input neuroagent to the output neuroagent is formed either with the minimal or the contextual excitation zone. A discovery manager (3020) and a prediction manager (3040) coupled to the knowledge model engine (3070) comprising input and output neuroagents, calculates the relative significance of the parameters and the accuracy of the knowledge model, respectively. The prediction manager coupled to the knowledge model engine takes the prediction results set from the knowledge model engine and calculates the predictions of the knowledge model. An INDEPENDENT CLAIM is also included for a method of creating **meta data** from the discovery domain.

USE - In computer implemented **data mining** system using unified neural multi- **agent** approach for use in field of business intelligence.

ADVANTAGE - Provides new capabilities for knowledge workers with some intelligence' inside to help them to explore complex data sets by providing discovery engine. Provides non- specialists with the prediction capabilities and highly valued knowledge discovery without requiring the intermediation of MIS personnel. Provides explicitly prediction knowledge models whose processes can be understood i.e. they provide semantic understanding, rather than being simply utilized thereby avoiding the undesirable situation.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of **data mining** system.

Discovery manager (3020)
Prediction manager (3040)
Knowledge model engine (3070)
pp; 55 DwgNo 24/27
Title Terms: NETWORK; MODEL; ENGINE; COMPUTER; IMPLEMENT; DATA; MINE;
  SYSTEM; FIELD; BUSINESS; INTELLIGENCE
Derwent Class: T01
International Patent Class (Main): **G06F-015/18**
File Segment: EPI

 18/5/35   (Item 35 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

012755156   **Image available**
WPI Acc No: 1999-561273/199947
XRPX Acc No: N99-414728
  Histogram aggregations computing system for data   mining **and data visualization** tools **such as scatter plot**
Patent Assignee: SILICON GRAPHICS INC (SILI-N)
Inventor: HABER E M; RATHMANN P K
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5960435	A	19990928	US 97815473	A	19970311	199947	B

Priority Applications (No Type Date): US 97815473 A 19970311
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5960435	A		28	G06F-017/30	

Abstract (Basic): US 5960435 A
NOVELTY - A binning module (120) determines a bin-index value for every input data record, so as to identify locations of an aggregation result field. A histogram aggregation module (130) aggregates a value field data with the result field location identified by bin-index value, when data of an input data record group by field matches with data in aggregate record group by field.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for histogram aggregation computing method.

USE - For **data mining** and data visualization **tools** used for

data visualizations such as scatter plot, geographical or **map**
visualization and tree or hierarchy visualization.
    ADVANTAGE - Since histogram distribution and aggregation are
combined into a single step, processing is made simple and more
efficient.
    DESCRIPTION OF DRAWING(S) - The figure shows block diagram of data
record **transformation** unit of histogram aggregations computing
system.
    Binning module (120)
    Histogram aggregation module (130)
    pp; 28 DwgNo 1/11
Title Terms: HISTOGRAM; COMPUTATION; SYSTEM; DATA; MINE; DATA; **TOOL** ;
  SCATTERING; PLOT
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

 18/5/36   (Item 36 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

012103787   **Image available**
WPI Acc No: 1998-520699/199844
XRPX Acc No: N98-406711
  **Computer based information accessing and evaluating method for processing
  application for insurance - involves invoking information interface
  processes to retrieve needed additional data for processing application
  through** data   warehouse **computer**
Patent Assignee: ALLSTATE INSURANCE CO (ALLS-N)
Inventor: BABIJ K; BATMAN J M; BULLOCK G; FINE S G; GILLESPIE W; GRECO N J;
  HAUGHT G R; PIHL E M; ROLAND D; WHITE E M
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 5809478   A   19980915 US 95569615   A   19951208 199844 B

Priority Applications (No Type Date): US 95569615 A 19951208
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 5809478   A   17 G06F-017/60

Abstract (Basic): US 5809478 A
    The method involves receiving a request to process an application
at the main computer. Each application is assigned with an unique
identifier. Then it is judged whether additional data is needed for
processing the application. The information interface processes are
invoked to retrieve the needed additional data through a **data
warehouse** computer (340). The information interface processes are
invoked by applying series of vendor **templates** to the orders and
formatting the orders according to data vendors (345). Then the
formatted orders are stored and transmitted to appropriate data
vendors. The formatted orders are stored in historical file in the main
computer.
    The data from the data vendors are received in response to the
formatted orders. The received data is matched with the orders and the
matched data is delivered to the main computer. The application is
processed with the additional data received through the **data
warehouse** .
    ADVANTAGE - Facilitates communication between risk evalvators and
agents . Improves speed and accuracy of processing insurance
application thereby increases quality of insurance product purchased by
consumers. Reduces burden of user and processing cost. Improves
efficiency of insurance company.
    Dwg.3/9
Title Terms: COMPUTER; BASED; INFORMATION; ACCESS; EVALUATE; METHOD;
  PROCESS; APPLY; INSURANCE; INVOKE; INFORMATION; INTERFACE; PROCESS;
  RETRIEVAL; NEED; ADD; DATA; PROCESS; APPLY; THROUGH; DATA; WAREHOUSE;

COMPUTER
Derwent Class: T01
International Patent Class (Main): **G06F-017/60**
International Patent Class (Additional): **G06F-017/40**
File Segment: EPI

18/5/37   **(Item 37 from file: 347)**
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

06915364   **Image available**
DEVICE AND METHOD FOR PROCESSING DATA AND STORAGE MEDIUM WITH PROGRAM
THEREFOR STORED THEREIN

PUB. NO.:   2001-142900 [JP 2001142900 A]
PUBLISHED: May 25, 2001 (20010525)
INVENTOR(s): SEIKI YASUSHI
APPLICANT(s): CANON INC
              SEIKI YASUSHI
APPL. NO.:   11-326746 [JP 99326746]
FILED: November 17, 1999 (19991117)
INTL CLASS: **G06F-017/30**

ABSTRACT

PROBLEM TO BE SOLVED: To perform a **data mining** by suitable handling a
semantic relation between words to be dynamically changed corresponding to
a retrieval word group.

SOLUTION: A **data mining** device is provided with an orthonormal space
generating part 101 for generating an image space I from **meta - data**
expressing the semantic relation between words, data **mapping** part 102
for **mapping** an analytic object item group, in which respective items are
defined by definition words, to the image space I, partial space selecting
part 103 for selecting the partial space of the image space I on the basis
of the retrieval word group, data projecting part 104 for projecting the
analytic object item group **mapped** into the image space I to the partial
space, object data sorting part 105 for clustering the analytic object item
group projected in the partial space, and cluster analytic part 106 for
extracting a knowledge by analyzing the cluster group obtained by
clustering.

```
Set      Items    Description
S1        2117    DATAMIN? OR DATAFOUNDR? OR DATAMART? OR DATA()(MINE? OR MI-
                  NING OR FOUNDR? OR MART? OR WAREHOUSE?) OR DATAWARE?
S2      541786    TRANSFORM? OR TRANSLAT? OR MAP OR MAPPING OR MAPS OR MAPPED
S3      516768    API OR PROGRAM()INTERFACE? OR MEDIATOR?  OR TOOL? ? OR AGE-
                  NT?
S4      441403    WRAPPER? OR LAYER?
S5        1016    UML OR UNIFIED()MODEL?()LANGUAGE?
S6         947    S1 AND (METADATA? OR META()(DATA OR INFORMATION? OR FORMAT-
                  ?) OR METAINFORMATION? OR SCHEMA? ? OR TEMPLATE?)
S7        6561    S5 OR XML OR EXTENSIB?()MARKUP()LANGUAGE
S8           7    S5 (S) S6
S9          10    S1(S)S2(S)S3(S)S4
S10        151    S4(S)S6
S11      87773    S1 OR (METADATA? OR META()(DATA OR INFORMATION? OR FORMAT?)
                  OR METAINFORMATION? OR SCHEMA? ? OR TEMPLATE?)
S12        907    S11(S)S2(S)S3
S13         30    S10(S)S2(S)S3
S14        113    S12(S)S4
S15         12    S12(S)S5
S16         61    S12(10N)S7
S17         26    S14(S)S7
S18         61    S8 OR S9 OR S13 OR S15 OR S17
S19         35    S18 AND IC=(G06F-007? OR G06F-017?)
S20         37    S8 OR S19
S21         37    IDPAT (sorted in duplicate/non-duplicate order)
S22         37    IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2003/Jun W04
         (c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20030626,UT=20030619
         (c) 2003 WIPO/Univentio
```

DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

01251961
Query engine and method for Querying data using metadata model
Abfragemaschine   und   -verfahren   zum   Abfragen von Daten mit einem
   Metadata-Modell
Moteur et methode de requetes pour interroger des donnees avec un modele de
   meta-donnees
PATENT ASSIGNEE:
  Cognos Incorporated, (2436581), 3755 Riverside Drive, Ottawa, Ontario K1G
   4k9, (CA), (Applicant designated States: all)
INVENTOR:
  Rasmussen, Glenn D., 47 Perrin Avenue, Nepean, Ontario K2J 2X6, (CA)
  Cazemier, Henk, 2101 Merivale Road, Nepean, Ontario K2C 3H1, (CA)
LEGAL REPRESENTATIVE:
  Cummings, Sean Patrick et al (72882), David Keltie Associates, 12 New
   Fetter Lane, London EC4A 1AG, (GB)
PATENT (CC, No, Kind, Date): EP 1081611 A2   010307 (Basic)
APPLICATION (CC, No, Date):   EP 307567 000901;
PRIORITY (CC, No, Date): CA 2281331 990903
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **G06F-017/30**

ABSTRACT EP 1081611 A2
   A query engine formulates a data source query to obtain data from one
  or more data sources. The query engine uses a metadata model containing
  model objects that represent the data sources. The metadata model has a
  data access layer, business layer and package layer. The model objects of
  the business layer are constructed based on the model objects contained
  in the data access layer. The query engine interacts to the metadata
  model at the business layer, and formulates a data source query based on
  a query specification provided by a client application. Thus, the query
  engine allows use of different type of client applications to obtain
  reports from one or more data sources.
ABSTRACT WORD COUNT: 115
NOTE:
  Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application: 010307 A2 Published application without search report
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200110	1457
SPEC A	(English)	200110	31744
Total word count - document A			33201
Total word count - document B			0
Total word count - documents A + B			33201

INTERNATIONAL PATENT CLASS: **G06F-017/30**

...SPECIFICATION relate "customers" and "products" to provide the user with
  information requested.
   The use of the **metadata** model 15 by the query engine 30 is briefly
  described with reference to Figure 3. A user uses a business intelligent
  tool or client application (not shown) to generate a user's request for
  information. Upon the...

...be applied to the data sources directly. Using the information that is
  built in the **metadata** model 15, the query engine 30 makes the
  specification 35 unambiguous and builds a query in terms of the data
  access **layer** 102 for the specification 35. This intermediate
  formulation of the query is also called a physical query and is
  subsequently **translated** into a data source specification language. The

data source specification language may be Structured Query...
...can be executed on the data sources. Thus, the correct data 40 may be
obtained.

Metadata Model 15
   The metadata model 15 is a tool to supply the common metadata
administration...more data sources 100, users 1001 use client
applications 1002, such as Impromptu, Power Play **Transformer** , Cognos
Query and third party **tools** , to query the data sources 100. The
metadata model 15 provides the business **layer** 104 and the package
layer 106 as described above. The client applications 1002 use the
information in the package **layer** 106 to allow users 1001 to construct
reports 1012. That is, the client applications 1002 use the package
layer 106 to present users with a portion of the objects 106a in the
package **layer** 106, and let users pick objects 106a to add to reports.
Each package is made up of objects that make references to objects in the
business **layer** 104 of the **metadata** model. A single **metadata** model
may contain multiple packages each with their own unique references to
the business **layer** 104.
   The client applications 1002 formulate query specifications 1004 in
terms of the objects in...

DIALOG(R)File 348:EUROPEAN PATENTS

01251948
Methods for transforming metadata models
Verfahren zum Umsetzen von Metadata-Modellen
Methodes de transformation de modeles de meta-donnees
PATENT ASSIGNEE:
  Cognos Incorporated, (2436581), 3755 Riverside Drive, Ottawa, Ontario K1G
    4k9, (CA), (Applicant designated States: all)
INVENTOR:
  Rasmussen, Glenn D., 47 Perrin Avenue, Nepean, Ontario K2J 2X6, (CA)
LEGAL REPRESENTATIVE:
  Cummings, Sean Patrick et al (72882), David Keltie Associates, 12 New
    Fetter Lane, London EC4A 1AG, (GB)
PATENT (CC, No, Kind, Date): EP 1081610 A2 010307 (Basic)
APPLICATION (CC, No, Date):   EP 307549 000901;
PRIORITY (CC, No, Date): CA 2281331 990903
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **G06F-017/30**

ABSTRACT EP 1081610 A2
    Transformations are provided for transforming a metadata model that
  contains model objects. The metadata model has a multiple layers
  including a lower layer containing one or more lower abstraction model
  objects having a lower abstraction level and a higher layer containing
  one or more higher abstraction model objects having a higher abstraction
  level. The transformations transform the model objects from the lower
  layer to the higher layer.
ABSTRACT WORD COUNT: 68
NOTE:
  Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application: 010307 A2 Published application without search report
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
      CLAIMS A (English) 200110   1520
      SPEC A   (English) 200110   21127
Total word count - document A   22647
Total word count - document B   0
Total word count - documents A + B   22647
INTERNATIONAL PATENT CLASS: **G06F-017/30**

...SPECIFICATION relate "customers" and "products" to provide the user with
  information requested.
    The use of the **metadata** model 15 by the query engine 30 is briefly
  described with reference to Figure 3. A user uses a business intelligent
  tool or client application (not shown) to generate a user's request for
  information. Upon the...

...be applied to the data sources directly. Using the information that is
  built in the **metadata** model 15, the query engine 30 makes the
  specification 35 unambiguous and builds a query in terms of the data
  access **layer** 102 for the specification 35. This intermediate
  formulation of the query is also called a physical query and is
  subsequently **translated** into a data source specification language. The
  data source specification language may be Structured Query...

...can be executed on the data sources. Thus, the correct data 40 may be
  obtained.

    Metadata Model 15

The metadata model 15 is a tool to supply the common metadata administration...

DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00887103   **Image available**
DATA SOURCE INTEGRATION SYSTEM AND METHOD
SYSTEME ET PROCEDE D'INTEGRATION DE SOURCES DE DONNEES
Patent Applicant/Assignee:
  THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, 5th
    floor, Oakland, CA 94607-5200, US, US (Residence), US (Nationality),
    (For all designated states except: US)
Patent Applicant/Inventor:
  GUPTA Amarnath, 12510 Carmel Creek Road, Apt. 199, San Diego, CA 92130,
    US, US (Residence), IN (Nationality), (Designated only for: US)
  LUDAESCHER Bertram, 4128-148 Via Candidiz, San Diego, CA 92130-3160, US,
    US (Residence), DE (Nationality), (Designated only for: US)
  MARTONE Maryann E, 8368G Via Sonoma, La Jolla, CA 92037, US, US
    (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
  FITZSIMONS Thomas R (agent), Greer, Burns & Crain, Ltd., Suite 2500, 300
    South Wacker Drive, Chicago, IL 60606, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200221259 A1 20020314 (WO 0221259)
  Application: WO 2001US27653 20010907 (PCT/WO US0127653)
  Priority Application: US 2000231094 20000908
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
  DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
  LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
  SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: **G06F-007/60**
International Patent Class: **G06F-017/10** ; G06F-101/00
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 19247

English Abstract
  A method and program product for integrating different data sources has
  steps of obtaining semantic information from each of the different ·data
  sources (200, 202, 210), creating a conceptual model of (218, 220, 22)
  the data source using the semantic information, and accessing one or more
  secondary knowledge sources. The secondary information sources contain
  information regarding the relations of data from different of the
  databases, so that an integrated semantic model of all of the databases
  (200, 202, 210) may be created. Queries can then be processed using the
  integrated semantic model.

French Abstract
  L'invention concerne un procede et un appareil d'integration de
  differentes sources de donnees, consistant d'abord a obtenir des
  informations semantiques a partir de chacune des differentes sources de
  donnees (200, 202, 210), a creer ensuite un modele conceptuel (218, 220,
  22) representant la source de donnees a l'aide des informations
  semantiques, et enfin, a acceder a une ou plusieurs source(s) de
  connaissance secondaire(s). Les sources de connaissance secondaires
  contiennent des informations sur les relations des donnees dans les
  differentes bases de donnees, qui permettent de creer un modele
  semantique integre pour l'ensemble des bases de donnees (200, 202, 210).
  On peut alors traiter les demandes au moyen du modele semantique integre.

Legal Status (Type, Date, Text)
Publication 20020314 A1 With international search report.

Detailed Description
...   current approaches to integration of information from
  heterogeneous sources are based on the prior art **mediator** architecture
  as
  discussed herein above in the Background of the Invention section. The
  problem of heterogeneous data models of sources is solved by **translating**
   the data into a common language using **wrappers** . The semistructured
  data model (essentially labeled directed graphs) in general and **XML** in
  particular have been shown to be suitable target data models. Once the
  data can be accessed in a uniform way, a **mediator** is used to integrate
  between the different local views and **schema** elements, based on the
  specification of an integrated view.

  The definition of such an integrated...

22/5,K/14   (Item 14 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00852848   **Image available**
MECHANISM AND APPARATUS FOR WEB-BASED SEARCHING OF URI-ADDRESSABLE REPOSITORIES IN A DISTRIBUTED COMPUTING ENVIRONMENT.
PROCEDE ET DISPOSITIF DE RECHERCHE DANS LE WEB DE SERVICES D'ARCHIVE ADRESSABLES PAR URI DANS UN ENVIRONNEMENT D'INFORMATIQUE DISTRIBUEE
Patent Applicant/Assignee:
  SUN MICROSYSTEMS INC, 901 San Antonio Road, Palo Alto, CA 94303, US, US (Residence), US (Nationality)
Inventor(s):
  SLAUGHTER Gregory L, 3326 Emerson Street, Palo Alto, CA 94306, US,
  SAULPAUGH Thomas E, 6938 Bret Harte Drive, San Jose, CA 95120, US,
  TRAVERSAT Bernard A, 2055 California Street, Apt. 402, San Francisco, CA 94109, US,
  ABDELAZIZ Mohamed M, 78 Cabot Avenue, Santa Clara, CA 95051, US,
Legal Representative:
  KOWERT Robert C (agent), Conley, Rose & Tayon, P.C., P.O. Box 398, Austin, TX 78767-0398, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200186487 A2-A3 20011115 (WO 0186487)
  Application: WO 2001US15135 20010509 (PCT/WO US0115135)
  Priority Application: US 2000202975 20000509; US 2000208011 20000526; US 2000209430 20000602; US 2000209140 20000602; US 2000209525 20000605; US 2000653612 20000831
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
  DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
  LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
  SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: G06F-009/46
International Patent Class: **G06F-017/30**
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 63258

English Abstract
  A system and method for searching for Internet-based repositories within a distributed computing environment are provided. A client on a device may interact with a search service on the same or a different device to find spaces (i.e., network-accessible XML object repositories) for storage and/or retrieval of data. The client may send an XML search request to the search service. The search request may include one or more desired characteristics, such as keywords, which are sought of a space. Based upon the search request, the search service may generate search results including locations (e.g., URIs) of one or more resulting spaces. The spaces may include web pages. In generating the search results, the search service may interact with a network-accessible third-party search engine, such as a browser-accessible search engine. The search service may obtain a service advertisement for each of the resulting spaces. Each service advertisement includes information which is usable to access the respective space. The search service may send the search results, including the advertisements and/or URIs, to the client to enable the client to access the resulting spaces at their respective locations. The search service may store the search results in a results space and send the address of the results space to the client.

French Abstract
  La presente invention concerne un systeme et un procede permettant de

rechercher des services d'archives accessibles par Internet dans un
environnement d'informatique distribuee. Un client sur in appareil peut
interagir avec un service de recherche sur le meme appareil ou un
appareil different de facon a trouver des espaces, c'est a dire des
archives d'objets XML accessibles par reseau, a des fins de stockage
et/ou de stockage de donnees. Le client peut envoyer au service de
recherche une requete de recherche XML. La requete de recherche peut
comporter une ou plusieurs caracteristiques desirees, telles que des mots
cles, qui sont recherches dans un espace. Sur la base de la requete de
recherche, le service de recherche peut generer des resultats de
recherche incluant des emplacements, par exemple des identificateurs URI,
d'un ou de plusieurs espaces resultants. Ces espaces peuvent inclure des
pages web. En generant les resultats de recherche, le service de
recherche peut interagit avec un moteur de recherche tiers accessible par
reseau, tel qu'un moteur de recherche accessible par navigateur. Le
service de recherche peut aboutir a une annonce de service pour chacun
des espaces resultants. Chaque annonce de service comporte une
information qui est utilisable pour acceder a l'espace considere. Le
service de recherche peut envoyer au client des resultats de recherche,
y-compris les annonces et/ou les identificateurs URI, pour permettre au
client d'acceder aux espaces resultants en leurs differents emplacements.
Le service de recherche peut stocker les resultats de recherche dans un
espace de resultats et envoyer au client l'adresse de l'espace des
resultats.

Legal Status (Type, Date, Text)
Publication   20011115 A2 Without international search report and to be
                         republished upon receipt of that report.
Examination   20020214 Request for preliminary examination prior to end of
                         19th month from priority date
Search Rpt   20030130 Late publication of international search report
Republication 20030130 A3 With international search report.

International Patent Class: **G06F-017/30**
Fulltext Availability:
  Claims

Claim
...   include an interface for spawning an empty space with substantially
   the same functionality (same XMI, **schema**) as the space from which
   (inverted exclamation mark)t is spawned. The spawming facility may...

...address, as indicated at 1954. As above, the second space service may
   include a second **schema** which specifies one or more messages usable to
   invoke functions of the second space service...other clients may be
   services) using the discovery protocol or other means. The message
   transport **layer** in a distributed computing environment may include
   mechanisms for protecting the security and integrity of...

...the messaging system including gates. Encryption of messages may be
   provided at the message transport **layer** of the distributed coinputing
   environment. Services that request an encrypted transport may do so by...
   The distributed computing environment may leverage device discovery
   tecImologies by wrapping their implementations in an **API** . Leveraging
   other device discovery protocols and providing a method to bridge to
   other discovery protocols...wrapping" one or more specific device
   discovery protocols, such as Bluetooth's, in a messaging **API** for the
   distributed computing environment. Wrapping may include 0 framing the
   device discovery protocol with code and/or data (the **API**) so that the
   protocol can be run by clients and/or services in the distributed...

...run (inverted exclamation mark)t. When run, the bridging mechanism may
   allow for a discovery **agent** that discovers devices by a specific device
   discovery protocol to publish services for those devices in a space in
   the distributed computing environment. The services present an **XML**
   message **schema** interface to clients in the distributed network
   environment, and are capable of operating the 5...
...one embodiment of a distributed computing environment with a space 1200.

One or more discovery **agents** 1204 may participate in an external discovery protocol and bridge to the distributed computing environment through bridging mechanism 1202. When the wrapped device discovery protocols are run, discovery **agents** 1204 through bridging mechanism 1202 may publish service advertisements 1206a-1206c in space 1200, wherein...

...the service advertisements 1206a-1206c in space 1200 to instantiate services on one of the **agents** 1204 that operates the corresponding external device or service. Thus, clients of the distributed. computing environinent may use discovery **agents** wrapping device discovery protocols to find. devices. A service acting as a bridge to these...

...message protocol, such as the discovery protocol described in the Spaces section, that may be **mapped** to an underlying external device discovery protocol, including the wrapped device discovery protocols described above. The **mapped** discovery protocol may register itself or be registered with a space, e.g. a default...

...protocol may be provided.
67
Figure 28 illustrates an example of the space discovery protocol **mapped** to a Bluetooth discovery service 1220 aceording to one embodiment. The Bluetooth discovery service 1220...

...the distributed computing environment. The Bluetooth discovery service 1220 may be wrapped in a bridging **API** , and an advertisement 1225 for the discovery service 1220 may be added 1232 in space...

...service advertisement 1225 on space 1224. When the discovery service 1220 is executed (ufiliang the **API** **wrapper** as a bridge between the discovery protocol 1220 and the distributed computing envirom-nent 1222 ...

...of the discovery process. The discovery service 1220 may store the results (again through the **API** **wrapper**) to discovery results space 1226 as one or more advertisements 1227. Altematively, results of executing...

...that the clients on the extemal devices may access services in the distributed computing environment. **Agents** may be provided that serve as clients in the distributed computing environment to bridge extemal...
...extemal clients to access services published in the distributed computing environment. In one embodiment, an **agent** may have an **XML** -enabled back end capable of communicating with services in the distributed computing environment using the...

...computing environment may locate and access services in the distributed computing enviromnent through the bridging **agent** , and may send requests to the services and receive responses from the services, including results data. For example, an extemal client may use the bridging **agent** to run space discovery in the distributed computing enviromnent, look up advertised services, and invoke...services that may not be bridged to the distributed computing environment. In one embodiment, an **agent** may be provided as a service in the distributed computing environment that bridges the Jini...

...used by Jini services to XMI, messaging used by distributed computing environment clients. When the **agent** is started, the **agent** nlay perfonn a lookup on the Jini spaces for Jini services that have a set of attributes. For every registered fini service, the **agent** may generate an XNM advertisernent that may correspond to the service and may register the advertisement in a space in the distributed computing environment. In one embodiment, an **agent** may register for event notification in the Jini Lookup service, and tIms may be informed...

...when a new Jini service is registered. When informed of a new Jini service, the **agent** may perform a lookup in Jini spaces to locate newly

advertised Jini services and to...

...advertisements for the new services. In one embodiment, when a Jini service is removed, the **agent** may receive an event notifying of the removal of the Jini service. The **agent** may then rernove the XMI, advertisement for the service from the space. In one embodiment...

...look up the service advertisernent in the space and may send. valid. messages to the **agent** to access the service. The **agent** may involce the proxy service corresponding to the Jini service by invoking the corresponding method through an RMI call to a service proxy. lf the proxy is not instantiated, the **agent** may download. the proxy code and instantiate a new instance of the proxy object. In...

...a different proxy-instance. The incoming message from the client may be converted by the **agent** into a method call for the proxy. The result from the method call. may be...
...location and. access method of data for the complex Java types. In one embodiment, the **agent** may perform initial conversion from XMI, messages to an RMI method call invocation dynamically. Since, the **agent** knows the service interface, it may generate the corresponding set of messages that are advertised...

...to the distributed computing enviromnent to a space 1254 in the distributed computing environment. Bridging **agent** 1252 may serve as the go-between between client 1250 and space 1254. Bridging **agent** 1252 may communicate with client 1250 in a communications protocol understandable by the client 1250. Bridging **agent** 1252 may **map** the client's communications protocol into the XNM messaging protocol necessary to communicate with space 1254 perform the facilities provided by space 1254. Bridging **agent** 1252, at client 1250's request, may locate and run services on space 1254. For...

...may request a fist of all services of a particular type from space 1254. Bridging **agent** 1252 may locate service advertisements 1256a-c and retuin the results to client 1250. Altematively...

...and may send. a message (in the client 1250's communications protocol) to bridging 0 **agent** 1252. Bridging **agent** 1252 may then send. the XMI, request message(s) necessary to execute the service represented...

...the client 1250 may be used as described above in the section tified Spaces. Bridging **agent** 1252 thus may act as a service of the externa(inverted exclamation mark) client 1250...the state of execution of Process A 1636a may be captured and stored in an **XML** -encapsulated state of Process A 1638. The execution of Process A 1636a on node 1630 may then be stopped. Later, node 1632 may locate the **XML** -encapsulated state of Process A 1638 and use it: to resume Process A 1636b on...

...the stored XMI, state of the process 1638. The following is an example of using **XML** -based process migration in the distributed computing environment, and is not intended to be litniting...

...Process A 1636a and resume execution later. lf the user replies in the affinnative, the **XML** -encapsulated state of the process may be captured and stored in persistent store 1634. Later...

...Resume from. Stored State" option. The node 1632 may then search for and locate the **XML** -encapsulated state of Process A 1638, download it, and use (inverted exclamation mark)t to information about restaurants, weather, **maps** , traffic, movie information, etc within a certain distance (radius) of the client device, and to...

...data to produce XMI, representations of the code and/or data, and to decompile the **XML** representations to reproduce the code and/or data on the mobile client device. In one...service and client may pass to each other XMI, messages including data and optionally XMI, **schemas** describing the data. In one embodiment, some code may be executed on the

service and...

...device offering the service and communicate with the device to execute
the service using the **XML** -based messaging system as previously
described herein. Alternatively, the user of the mobile computing device
...necessary to implement the full protocol of the distributed computing
environment. In one embodiment, an **agent** may be provided as a bridge
between the small device-capable protocol and the full protocol. The
agent may perforin the fall protocol discovery for the small device, so
the device may not...

...may only have to send messages that are part of the service activation
to the **agent** . The **agent** may perfonn the service activation via the
full protocol to the service and forward incoming...
...the service, and/or may forward replies from the service to the client.
Thus, the **agent** may act as a service connector for the sniall client.
In one embodiment of the...

...embodiment, a control system. may be configured to manage a variety of
devices by sending **XML** request messages specific to each device or
category of device that it controls and by receiving XMI, messages from
the devices. In one embodiment, one or more XMI, **schemas** may be used to
define an embedded device's specific set of XMI, messages; the **schema**
may be used by the embedded device and/or the control systein in sending
and...

...may fia in the limited memory of the small footprint devices. In one
embodiment, the **XML** messaging system may be implemented in a small
focitprint with a virtual machine targeted at...

...or more control systems) may be associated with the virtual machine and
the XMI, messaging **layer** may "sit on 0 top" of the networking stack. It
is noted that this implementation...

...messages. Thus, static messages may be used to reduce the code footprint
of the messaging **layer** in embedded systems. For example, static Java
objects (Java op codes) may be used for...

...control system 1800 over network 1810. Control system 1800 may have an
implementation of the **XML** rnessaging system for sending requests to and
receiving responses from embedded devices 1804a and 1804b...

22/5,K/21   (Item 21 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00797970   **Image available**
INVESTMENT ADVICE SYSTEMS AND METHODS
SYSTEMES ET PROCEDES DE CONSEIL EN INVESTISSEMENTS
Patent Applicant/Assignee:
  UPSTREAM TECHNOLOGIES LLC, Suite 401, 745 Boylston Street, Boston, MA
    02116, US, US (Residence), US (Nationality)
Inventor(s):
  HOFFMAN Mark, 8 Wildwood Lane, P.O. Box 861, Norwell, MA 02061, US,
  MCRAE Donald A, 17180 Creighton Drive, Chagrin Falls, OH 44023, US,
  SAMUELSON Paul, 17 Winthrop Street, W. Newton, MA 02465, US,
  SCHULMAN Evan, 3 Exeter Street, Boston, MA 02116, US,
  WALKER James L, 16 Field Street, Maynard, MA 01754, US,
Legal Representative:
  MIRABITO A Jason (agent), Mintz, Levin, Cohn, Ferris, Glovsky and Popeo
    PC, One Financial Center, Boston, MA 02111, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200131538 A1 20010503 (WO 0131538)
  Application: WO 2000US29450 20001025 (PCT/WO US0029450)
  Priority Application: US 99161258 19991025
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
  DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
  LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
  SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: **G06F-017/60**
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 22051

English Abstract
  The present invention provides investment advice systems. One version of
  the present invention provides investment advice systems that allow a
  user to select one or more advisors from a list of investment advisors.
  According to this version of the invention, the end user can receive
  advice on an particular transaction either separately from each
  investment advisor or in consensus. The system offers advice in part on
  the user's portfolio, tax position and risk profile and in part on the
  advisors evaluation of current market conditions. Thus, when a user is
  considering making a transaction, the user can obtain advice that can
  take into portfolio information including a user's proposed transaction
  and/or user portfolio information. A user armed with the above-described
  customized advice can execute a specific transaction and have their
  portfolio updated to reflect execution of that (those) order(s). In an
  alternative embodiment, a user's desire to buy or sell a security and/or
  a need for rebalancing a user's portfolio can generate transaction(s). As
  a result, the system will generate a buy/sell list (including recommended
  alternatives) from which a user can select.

French Abstract
  La presente invention concerne des systemes de conseil en matiere
  d'investissements. Une premiere version de cette invention fournit des
  systemes de conseils en investissements qui permettent a l'utilisateur de
  selectionner un ou plusieurs conseillers dans une liste de conseillers en
  investissements. Selon cette version, l'utilisateur final peut recevoir
  des conseils sur une transaction particuliere de la part d'un des
  conseillers, soit de maniere individuelle soit en accord avec les autres
  conseillers. Ce systeme offre des conseils en partie sur le portefeuille,

la situation fiscale, et le profil des risques de l'utilisateur, et en
partie sur l'evaluation des conseillers de la situation actuelle du
marche. Ainsi, lorsqu'un utilisateur envisage d'effectuer une
transaction, il peut obtenir des conseils, par exemple des informations
de portefeuille telles qu'une transaction d'utilisateur proposee et/ou
des informations de portefeuille d'utilisateur. Grace a ce dispositif
personnalise, l'utilisateur peut executer une transaction specifique et
son portefeuille peut etre mis a jour afin de reflechir l'execution de
son/ses ordre(s). Dans une variante, le desir d'un utilisateur d'acheter
ou de vendre un titre et/ou le besoin de reequilibrer le portefeuille
d'un utilisateur peuvent creer une/des transaction(s). Ainsi, le systeme
creera une liste d'achats/ventes (comprenant les options recommandees) a
partir de laquelle l'utilisateur peut faire son choix.

Claim
... use automated online advice solution by 2005. Thus, mutual ftinds and
  brokers/planners require productivity **tools** to facilitate handling
  larger client bases and to provide better services and new services. Thus
  ...the invest use case of FIG. 2B. FIG. 4 shows one embodiment of the
  system **layers** for the investment advice system of FIG. 1. FIG. 5 is a
  diagram illustrating the...

...information used by the investment advice system of FIG. 1. FIG. 9 is a
  system **map** for one embodiment of the investment advice system of FIG.
  1. FIG. 10 shows one...

...trade execution results" screen of FIG. 9. FIG. 15 shows one embodiment
  of the "trade **templates** " screen of FIG. 9. FIG. 16 shows one embodiment
  of the "trade station" screen of...

...applying embodiments of the present invention.
  7
  FIG. 18 shows another embodiment of a system **map** for the investment
  advice system of FIGS. 1. FIG. 19 is a block diagram showing...

...recommendations to a unit non-nal distribution and then creating ranges
  of values, which are **mapped** into ranking categories. If the
  recommendations include only limited categories (such as strong buy, buy
  ...two sources, the system revises the recommendation weights in creating
  the combined rankings. The system **transforms** the weights after the
  optimization process so that the weights add up to 1. The...

...total return. From these residuals, the system estimates a residual
  standard deviation. The system can **translate** all risk measures into
  annual terms. In another embodiment, the system calculates portfolio risk
  measures...

...standard deviation of the portfolio return (which assumes a normal
  distribution of stock returns) and **transforms** it to a t-distribution
  with pre-determined degrees of freedom and a similarly scaled...

...estimates of the potential for losing money. In still another
  embodiment, the system calculates and **translates** marginal risk
  estimates for individual stocks into rankings (scaled appropriately

versus the rankings based on...and in terms of rankings (scaled appropriately versus the return rankings). In particular, the system **transforms** the risk estimates into rankings in a procedure similar to that of **transforming** individual rankings. The scaling of the rankings depends on the risk levels and the investor...

...System Architecture
One medium for expressing the system architecture of the present invention is the **Unified Modeling Language** (**UML**). The system architecture utilizes various elements of the Unified Process and expresses the architecture using **UML** . Based on the Unified Process, the following different and interlocking views model the system architecture ...

...interface definitions. Where appropriate, a developer can develop similar Class Diagrams using a Visual Modeling **tool** such as Microsoft Visual Modeler or Rose 2000.
Process View
The process view of a...

00512812   **Image available**
A MULTIDIMENSIONAL DATA DISPLAY AND MANIPULATION SYSTEM AND METHODS FOR
    USING SAME
AFFICHAGE   DE   DONNEES   PLURIDIMENSIONNEL ET PROCEDES ET SYSTEME DE
    MANIPULATION EN VUE DE SON UTILISATION
Patent Applicant/Assignee:
  ANWAR Mohammed S,
Inventor(s):
  ANWAR Mohammed S,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9944164 A1 19990902
  Application: WO 98US3736 19980224   (PCT/WO US9803736)
  Priority Application: WO 98US3736 19980224
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
  FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
  MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ
  VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH
  DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR
  NE SN TD TG   .
Main International Patent Class: **G06F-017/60**
Publication Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 13900

English Abstract
  This invention discloses a user interface and data management procedures
  for the efficient display, manipulation and analysis of multi attributed
  data or data amenable to multidimensional display, manipulation and
  management. The invention is centered on the construction and use of data
  carrousels comprising one or more n-gons where each n-gon can be a
  layered n-gon at solid or each side of each n-gon can be a single face of
  an embedded n-gon.

French Abstract
  Cette invention concerne une interface d'utilisateur ainsi que des
  procedures de gestion de donnees qui permettent d'afficher, de manipuler
  et d'analyser efficacement des donnees a attribution multiple ou des
  donnees susceptibles d'etre soumises a un affichage, une manipulation et
  une gestion pluridimensionnels. Cette invention concerne essentiellement
  une structure et l'utilisation de carrousels de donnees qui comprennent
  un ou plusieurs polygones a n faces. Chacun de ces polygones a n faces
  peut consister en un polygone a n faces stratifie et a l'etat solide ou,
  encore, chaque cote d'un polygone a n faces peut representer une face
  unique d'un polygone a n faces integre.

Main International Patent Class: **G06F-017/60**
Fulltext Availability:
  Detailed Description

Detailed Description
... GUI) and a multi-dimensional data manipulation system. The data
  manipulation system includes: (1) a **meta – data** manager (MDM); (2) at
  least one pro-active **agent** ; (3) a pivot manager; (4) an 10 broker
  (syntactically and/or semantically intelligent); (5) import and export
  routines; (6) a database
  connectivity engine (DCE) which provides procedures to **map** data from
  different/multiple databases and display as a single **schema** ; (7)
  dynamically generated SQL routines to optimize runtime performance; (8) a
  query estimate manager; (9...

...times keeping routines-, (10) a data carrousel or object controller
  (DCC)- (11) a selection exception **agent** (SEA)- (12) a spreadsheet

controller (SQ; (13) optionally as plurality of wizards- (14) a **Schema**
Synchronization Manager (SSM); (I 5) a threads manager; (I 6) a macro
and/or scripting language manager (MM); (I 7) an **API** set; (I 8) an
analytic engine (AE); (...

```
Set     Items     Description
S1      128835    DATAMIN? OR DATAFOUNDR? OR DATAMART? OR DATA()(MINE? OR MI-
                  NING OR FOUNDR? OR MART? OR WAREHOUSE?) OR DATAWARE?
S2      2811974   TRANSFORM? OR TRANSLAT? OR MAP OR MAPPING OR MAPS OR MAPPED
S3      4993491   API OR PROGRAM()INTERFACE? OR MEDIATOR?  OR TOOL? ? OR AGE-
                  NT?
S4      751071    WRAPPER? OR LAYER?
S5      6847      UML OR UNIFIED()MODEL?()LANGUAGE?
S6      2430      S1(5N)(METADATA? OR META()(DATA OR INFORMATION? OR FORMAT?)
                  OR METAINFORMATION? OR SCHEMA? ? OR TEMPLATE?)
S7      463       S2(S)S6
S8      215       S3(S)S7
S9      2         S4(S)S8
S10     0         S5(S)S8
S11     8         S4(S)S7
S12     0         S5(S)S7
S13     5         S5(S)S6
S14     0         S8(S)(MEDIATOR?)
S15     0         S7(S)(MEDIATOR?)
S16     351       S1(S)S2(S)S3(S)S4
S17     0         S16(S)S5
S18     2         S16(S)S6
S19     13        S9 OR S11 OR S13 OR S18
S20     8         RD (unique items)
S21     5         S20 NOT PY>2000
S22     4         S21 NOT PD>20000107
File 275:Gale Group Computer DB(TM) 1983-2003/Jun 30
         (c) 2003 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2003/Jun 25
         (c) 2003 The Gale group
File  75:TGG Management Contents(R) 86-2003/Jun W4
         (c) 2003 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2003/Jun 30
         (c) 2003 The Gale Group
File  16:Gale Group PROMT(R) 1990-2003/Jul 01
         (c) 2003 The Gale Group
File 624:McGraw-Hill Publications 1985-2003/Jul 01
         (c) 2003 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2003/Jun W4
         (c) 2003 ProQuest
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2003/May
         (c) 2003 The HW Wilson Co
File 696:DIALOG Telecom. Newsletters 1995-2003/Jun 30
         (c) 2003 The Dialog Corp.
File 553:Wilson Bus. Abs. FullText 1982-2003/May
         (c) 2003 The HW Wilson Co
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Jun 27
         (c) 2003 The Gale Group
File 674:Computer News Fulltext 1989-2003/Jun W5
         (c) 2003 IDG Communications
File  88:Gale Group Business A.R.T.S. 1976-2003/Jun 26
         (c) 2003 The Gale Group
File 369:New Scientist 1994-2003/Jun W4
         (c) 2003 Reed Business Information Ltd.
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2003/Jul 01
         (c) 2003 ProQuest Info&Learning
File  15:ABI/Inform(R) 1971-2003/Jul 01
         (c) 2003 ProQuest Info&Learning
File   9:Business & Industry(R) Jul/1994-2003/Jun 30
         (c) 2003 Resp. DB Svcs.
File  13:BAMP 2003/Jun W4
         (c) 2003 Resp. DB Svcs.
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
```

22/3,K/1   (Item 1 from file: 275)

02162346   SUPPLIER NUMBER: 20444108   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Open OLAP. (Technology Information)(Cover Story)
Elkins, Steven B.
DBMS, v11, n4, p34(6)
April, 1998
DOCUMENT TYPE: Cover Story   ISSN: 1041-5173   LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3854   LINE COUNT: 00363

...   systems and transforming it into dimensional star schema format at
the atomic data warehouse or **data   mart   layers** of the architecture.
This **metadata** includes mappings of tables and fields in a data warehouse
(or data mart) to dimensions...

22/3,K/2   (Item 2 from file: 275)

01888703   SUPPLIER NUMBER: 17956936   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Transforming data into action. (health and beauty manufacturer employ OLAP
   and workflow software) (Technology Information)**
Youngworth, Paul
Data Based Advisor, v14, n1, p68(3)
Jan, 1996
ISSN: 0740-5200   LANGUAGE: English   RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1660   LINE COUNT: 00135

...ABSTRACT: exceptions. An OLAP software product, Prodea Software's
Prodea Beacon, is used to create a **layer** of **metadata** that is stored in
a **data   warehouse** . The **metadata   translates** the relational material
into terms that users can readily understand. Users see dollars, units,
product...

22/3,K/3   (Item 1 from file: 636)

03927372   Supplier Number: 50176605   (USE FORMAT 7 FOR FULLTEXT)
**MICROSTRATEGY: MicroStrategy to support Informatica's MX2 Metadata Exchange
   architecture**
M2 Presswire, pN/A
July 22, 1998
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 786

...   Informatica launched its Metadata Exchange (MX) architecture to
address the challenge of integrating decision support **metadata** , or "data
about data," between **data   warehouse** repositories and desktop on-line
analytical processing (OLAP), query and access tools. Through automated
generation...

...s Component Object Model (COM) technology. It will also comply with the
Universal Modeling Language (**UML**) standard currently supported by
Microsoft, Informatica and other industry-leading IT companies.
      Beginning with DSS...

22/3,K/4   (Item 1 from file: 15)

ABSTRACT: Metadata is the data about data that serves as the information
 map for any **data**   **mart** or warehouse. Today, to achieve maximum results
from data warehousing efforts, manufacturers are creating an information
 layer in their **data**   **warehouses** called a **metadata** repository. By
creating a structured metadata repository, manufacturers can **transform**
raw data from operational systems into valuable decision-support
information. A metadata driven architecture facilitates...

... consolidation of business rules, scheduling of processes for warehouse
maintenance, and integration with decision-support **tools** for effective
warehouse exploitation. Many of today's leading **data**   **warehouse**
software vendors provide a turnkey solution that pre-integrates all the
necessary components and ensures that metadata is synchronized and
integrated with all parts of the **data**   **warehouse** .
...TEXT: enhance data warehouse performance

Metadata is the data about data that serves as the information **map** for
any data mart or warehouse. Today, to achieve maximum results from data
warehousing efforts, manufacturers are creating an information **layer** in
their **data**   **warehouses** called a **metadata** repository. By creating a
structured metadata repository, manufacturers can **transform** raw data from
operational systems into valuable decision-support information. In
addition, a metadata repository...

... allows an administrator to define the entire data extraction process
from the operational environment; to **transform** the data into consistent
information; and to load the data into a customized "data store...

```
Set      Items    Description
S1       28205    DATAMIN? OR DATAFOUNDR? OR DATAMART? OR DATA()(MINE? OR MI-
                  NING OR FOUNDR? OR MART? OR WAREHOUSE?) OR DATAWARE?
S2      2579551   TRANSFORM? OR TRANSLAT? OR MAP OR MAPPING OR MAPS OR MAPPED
S3      2328477   API OR PROGRAM()INTERFACE? OR MEDIATOR?  OR TOOL? ? OR AGE-
                  NT?
S4      1836586   WRAPPER? OR LAYER?
S5         5513   UML OR UNIFIED()MODEL?()LANGUAGE?
S6         1150   S1 AND (METADATA? OR META()(DATA OR INFORMATION? OR FORMAT-
                  ?) OR METAINFORMATION? OR SCHEMA? ? OR TEMPLATE?)
S7        20548   S5 OR XML OR EXTENSIB?()MARKUP()LANGUAGE
S8           10   S5 AND S6
S9         2482   S2 AND S1
S10         638   S9 AND S3
S11          87   S9 AND S4
S12         488   S6 AND (S2 OR S3 OR S7)
S13      216108   (S1 OR METADATA? OR META()(DATA OR INFORMATION? OR FORMAT?)
                  OR METAINFORM? OR SCHEMA? ? OR TEMPLATE?)
S14         128   S13 AND S2 AND S3 AND S4
S15         320   S13 AND S5
S16          20   S10 AND S4
S17           3   S10 AND S5
S18           1   S14 AND S5
S19        4902   S13(5N)S2
S20          32   S14 AND S19
S21          60   S8 OR S16 OR S17 OR S18 OR S20
S22          43   RD (unique items)
S23          25   S22 NOT PY>2000
S24          24   S23 NOT PD>20000107
File     8:Ei Compendex(R) 1970-2003/Jun W4
           (c) 2003 Elsevier Eng.  Info. Inc.
File    35:Dissertation Abs Online 1861-2003/Jun
           (c) 2003 ProQuest Info&Learning
File 202:Info. Sci. & Tech. Abs. 1966-2003/Jun 30
           (c) Information Today, Inc
File    65:Inside Conferences 1993-2003/Jun W5
           (c) 2003 BLDSC all rts. reserv.
File     2:INSPEC 1969-2003/Jun W4
           (c) 2003 Institution of Electrical Engineers
File    94:JICST-EPlus 1985-2003/Jun W4
           (c)2003 Japan Science and Tech Corp(JST)
File 111:TGG Natl.Newspaper Index(SM) 1979-2003/Jun 25
           (c) 2003 The Gale Group
File 233:Internet & Personal Comp. Abs. 1981-2003/May
           (c) 2003 Info. Today Inc.
File 144:Pascal 1973-2003/Jun W3
           (c) 2003 INIST/CNRS
File    34:SciSearch(R) Cited Ref Sci 1990-2003/Jun W5
           (c) 2003 Inst for Sci Info
File    99:Wilson Appl. Sci & Tech Abs 1983-2003/May
           (c) 2003 The HW Wilson Co.
```

02793617   E.I. Monthly No: EIM8909-031974
   Title: Object-based architecture for biomedical expert database systems.
   Author: Barsalou, Thierry
   Corporate Source: Stanford Univ, Sch of Medicine, Stanford, CA, USA
   Conference Title: Proceedings - Twelfth Annual Symposium on Computer
Applications in Medical Care
   Conference Location: Washington, DC, USA   Conference Date: 19881106
   Sponsor: Alliance   for   Continuing   Medical   Educuation;   Alliance   for
Engineering   in   Medicine   &   Biology;   American Acad of Family Physicians;
American   Acad of Physican Assistants; American Assoc for Medical Systems &
Informatics; et al
   E.I. Conference No.: 12177
   Source: Proceedings - Annual Symposium on Computer Applications in
Medical Care. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA.
Available from IEEE Service Cent (cat n 88CH2616-1), Piscataway, NJ, USA. p
572-578
   Publication Year: 1988
   CODEN: PCMCDC   ISSN: 0195-4210   ISBN: 0-8186-0881-1
   Language: English
   Document Type: PA; (Conference Paper)   Treatment: A; (Applications)
   Journal Announcement: 8909
   Abstract: An expert database systems architecture that introduces an
object-based interface between relational-database and expert systems is
presented. A semantic model of the database structure is used to **map**
relations automatically into object **templates** , where each **template** can
be a complex combination of join and projection operations. The **templates**
are arranged into object networks that represent different views of the
same database. Separate processes instantiate those **templates** using data
from the base relations, cache the resulting instances in main memory,
navigate through a given network's objects, and update the database
according to changes made at the object **layer** . The capabilities of a
prototype implementation of the architecture are demonstrated in the
context of an immunologic-research application. The resulting model
provides enhanced **tools** for database structuring and manipulation. In
addition, this architecture supports efficient bidirectional communication
between database and expert systems through the shared object **layer** . 31
Refs.
   Descriptors: *DATABASE SYSTEMS--*Medical Applications; ARTIFICIAL
INTELLIGENCE--Expert Systems; COMPUTER INTERFACES
   Identifiers: OBJECT BASED ARCHITECTURE; BIOMEDICAL EXPERT DATABASE
SYSTEMS; RELATIONAL DATABASES
   Classification Codes:
   723   (Computer Software); 461   (Biotechnology)
   72   (COMPUTERS & DATA PROCESSING); 46   (BIOENGINEERING)

**MEDIATING REPRESENTATIONS AND CONSTRUCTIVIST KNOWLEDGE ACQUISITION
(REPERTORY GRID,** MAPPING **)**
  Author: BRADSHAW, JEFFREY M.
  Degree: PH.D.
  Year: 1996
  Corporate Source/Institution: UNIVERSITY OF WASHINGTON (0250)
  Chairperson: EARL HUNT
  Source: VOLUME 57/05-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
        PAGE 3284. 445 PAGES
  Descriptors: COMPUTER SCIENCE ; ARTIFICIAL INTELLIGENCE
  Descriptor Codes: 0984; 0800

    In this study, I describe knowledge acquisition research leading to
the development of DDUCKS$\sp1,$ a constructivist knowledge modeling
environment. Many of the ideas are derived from the work of George Kelly's
personal construct theory. I describe important concepts motivating the
theory and introduce its most well known contribution to knowledge
acquisition research: the repertory grid. I discuss recent efforts to
extend repertory grid techniques and integrate them with ideas springing
from complementary perspectives. New understandings of relationships
between personal construct theory, semantic networks, decision analysis,
and design methods have formed the underpinnings of knowledge acquisition
tools such as Aquinas, Axotl, and Canard, designed to overcome previous
limitations of repertory grids. These developments lay the conceptual
foundation for a more general approach.
    DDUCKS is a "second generation" constructivist knowledge acquisition
environment that supports general-purpose user-tailorable **mapping**
facilities between different mediating representations. These **mapping**
facilities rely on a three- **schema** architecture for knowledge
representation, with a concept modeling capability at its core. Specific
groups of conceptual structures ("ontologies") specified within DDUCKS
define its modeling framework. The success of DDUCKS depends on effectively
designing these concepts so they can be easily reused for a variety of
applications and representation frameworks. A **layered** architecture
partitioned by theories and contexts, facilitates reuse of knowledge
structures across applications and helps resolve of ambiguities of
reference. A **translation** facility to Gruber's Ontolingua is discussed.
    The central problem of constructing mediating representations is one
of how to straightforwardly define a set of model views that are both
logically consistent with the properties of concepts as defined in the
concept model, and subjectively consistent with the user's concrete ways of
visualizing them. Relying on a conceptualist semantics, we define mappings
between particular conceptual modeling framework and the repertoire of
user-interface interaction paradigms available in the knowledge
representation system. Two kinds of **agents** (interpreters and expressors)
map concept model components to syntactic elements of graphical
interaction paradigms. A virtual notebook allows users to organize
instances of resultant mediating representations as indexed "pages." I
conclude with observations about the past, and speculations on the future
of knowledge acquisition. ftn$\sp1$Decision and Design Utilities for
Comprehensive Knowledge Support. Either the first or the second 'D' in the
acronym is silent, depending on the context in which the **tool** is being
used.

6576729   INSPEC Abstract Number: C2000-06-6160B-015
 Title: Generation of conceptual wrappers **for legacy databases**
   Author(s): Thiran, P.; Chougrani, A.; Hick, J.-M.; Hainaut, J.-L.
   Author Affiliation: Inst. d'Inf., Namur Univ., Belgium
   Conference   Title: Database   and   Expert   Systems   Applications.   10th
International   Conference,   DEXA'99   (Lecture   Notes   in   Computer   Science
Vol.1677)   p.678-87
   Editor(s): Bench-Capon, T.; Soda, G.; Tjoa, A.M.
   Publisher: Springer-Verlag, Berlin, Germany
   Publication Date: 1999 Country of Publication: Germany   xviii+1105 pp.
   ISBN: 3 540 66448 3   Material Identity Number: XX-1999-02591
   Conference   Title: Proceedings of DEXA'99: 10th International Conference
and Workshop on Database and Expert Systems Applications
   Conference   Date: 30 Aug.-3 Sept. 1999   Conference Location: Florence,
Italy
   Language: English   Document Type: Conference Paper (PA)
   Treatment: Practical (P); Theoretical (T)

   Abstract: One   way   to   solve   the   heterogeneity problem of distributed
legacy   databases   consists in wrapping them as objects that can be queried
for   retrieval   and   updating. This paper presents the InterDB approach for
the generation of conceptual **wrappers** for legacy databases. The generated
 wrapper is a software **layer** that offers a conceptual interface based on
the   conceptual   **schema**   of   the   wrapped   database. The InterDB approach
provides   a   complete methodology for conceptual **schema** recovery (through
reverse   engineering)   and   **mapping** building. The methodology is supported
by the DB-MAIN CASE **tool** that helps generate the **wrapper** .   (11 Refs)
   Subfile: C
   Descriptors: computer aided software engineering; data structures;
database theory; distributed databases; query processing; reverse
engineering
   Identifiers: conceptual **wrappers** ; distributed legacy databases; object
querying; retrieval; updating; InterDB approach; software **layer** ;
conceptual interface; wrapped database; conceptual **schema** recovery;
reverse engineering; DB-MAIN CASE **tool**
   Class Codes: C6160B (Distributed databases); C4250 (Database theory);
C6120 (File organisation)

6307691   INSPEC Abstract Number: C1999-09-6170K-021
  Title: Knowledge discovery with supervised and unsupervised self evolving neural networks
  Author(s): Alahakoon, D.; Halgamuge, S.K.
  Author Affiliation: Sch. of Comput. Sci. & Software Eng., Monash Univ., Caulfield East, Vic., Australia
  Conference Title: Proceedings of the 5th International Conference on Soft Computing and Information/Intelligent Systems. Methodologies for the Conception, Design and Application of Soft Computing   Part vol.2   p. 907-10 vol.2
  Editor(s): Yamakawa, T.; Matsumoto, G.
  Publisher: World Scientific, Singapore
  Publication Date: 1998 Country of Publication: Singapore   2 vol. xlii+1030 pp.
  ISBN: 981 02 3632 8   Material Identity Number: XX-1999-01653
  Conference Title: Proceedings of 5th International Conference on Soft Computing and Information/Intelligent Systems. 2 vol
  Conference Sponsor: Int. Fuzzy Syst. Assoc.; Int. Neural Network Soc.; Japan Soc. Fuzzy Theory & Syst.; et al
  Conference Date: 16-20 Oct. 1998   Conference Location: Fukuoka, Japan
  Language: English   Document Type: Conference Paper (PA)
  Treatment: Applications (A)
  Abstract: We describe two extended algorithms useful in knowledge discovery and **data mining**. Firstly the self organising feature **map** (SOFM) extended by acquiring the ability of self growing nodes is described. The second method is a generalised form of radial basis function (RBF) networks with the capability of expanding the hidden **layer** automatically. The main contribution of this paper is to highlight the fact that the extension of the existing fixed structure neural networks into self evolving neural networks, convert them into useful **tools** for **data mining** and knowledge discovery. (8 Refs)
  Subfile: C
  Descriptors: **data mining**; learning (artificial intelligence); radial basis function networks; self-organising feature **maps**
  Identifiers: knowledge discovery; **data mining**; supervised self evolving neural networks; unsupervised self evolving neural networks; self growing nodes; radial basis function networks; automatic hidden **layer** expansion; fixed structure neural networks
  Class Codes: C6170K (Knowledge engineering techniques); C6160 (Database management systems (DBMS)); C5290 (Neural computing techniques)

5903203   INSPEC Abstract Number: C9806-6160S-013
  Title: SOS-SD: a data **warehouse -based system for the optimized selection of spatial data**
  Author(s): Letourneau, F.; Bedard, Y.; Prouix, M.-J.
  Author Affiliation: Center for Res. in Geomatics, Laval Univ., Que., Canada
  URL: http://www.dlib.org/dlib/march97/laval/03letourneau.html
  Journal: D-Lib Magazine
  Publication URL: http://mirrored.ukoln.ac.uk/lis-journals/dlib/
  Publisher: Corporation for National Research Initiatives,
  Publication Date: March 1997 Country of Publication: USA
  ISSN: 1082-9873
  Material Identity Number: G467-98003
  Language: English; French   Document Type: Journal Paper (JP)
  Treatment: Practical (P)
  Abstract: The heterogeneity of georeferenced digital libraries (GDL) is a serious problem for researchers who need to query several GDLs to find the

best spatial data available for their projects. Differences in content, standards, user interfaces, semantics, database structure, etc. are the rule on the Internet. In addition, users have no **tool** to help them select the best sources of spatial data once they have clearly defined their needs and have found several potential sources in the GDLs. Data warehousing technology, coupled with a data **transformation** /integration **tool** plus a data selection **layer** running on the Internet, appears to be a promising solution for such problems of heterogeneity and best selection. Data warehousing is used to integrate and replicate data subsets coming from heterogeneous legacy systems and to create new sets of summarized data to support management decisions. When the **data warehouse** supports an application to find the best source of data for a given demand, then we have a new and promising solution. Such a concept, called "System for the Optimized Selection of Spatial Data" (SOS-SD), is being developed as an M.Sc. research project, at Laval University. (0 Refs)

Subfile: C

Descriptors: Internet; query processing; replicated databases; user interfaces; very large databases; visual databases

Identifiers: SOS-SD; **data warehouse** ; spatial data selection; georeferenced digital libraries; query processing; standards; user interfaces; semantics; content; database structure; Internet; data **transformation tool** ; data replication; heterogeneous legacy systems; management decisions; summarized data; System for the Optimized Selection of Spatial Data; research project

Class Codes: C6160S (Spatial and pictorial databases); C6160Z (Other DBMS); C7210 (Information services and centres); C7250 (Information storage and retrieval)

04685247   Genuine Article#: UA879   Number of References: 20
Title: INTERPRETATION AND KNOWLEDGE DISCOVERY FROM THE MULTILAYER
     PERCEPTRON NETWORK - OPENING THE BLACK-BOX
Author(s): VAUGHN ML
Corporate Source: CRANFIELD UNIV,COMP INFORMAT SYST MANAGEMENT
     GRP,RMCS/SWINDON SN6 8LA/WILTS/ENGLAND/
Journal: NEURAL COMPUTING & APPLICATIONS, 1996, V4, N2, P72-82
ISSN: 0941-0643
Language: ENGLISH   Document Type: ARTICLE
Geographic Location: ENGLAND
Subfile: SciSearch; CC ENGI--Current Contents, Engineering, Technology &
     Applied Sciences
Journal Subject Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Abstract: This paper interprets the outputs from the multilayer perceptron
     (MLP) network by finding the input data features at the input **layer**
     of the network which activate the hidden **layer** feature detectors.
     This leads directly to the deduction of the significant data inputs,
     the inputs that the network actually uses to perform the input/output
     mapping for a classification task, and the discovery of the most
     significant of these data inputs. The analysis presents a method for
     providing explanations for the network outputs and for representing the
     knowledge learned by the network in the form of significant input data
     relationships. During network development the explanation facilities
     and data relationships can be used for network validation and
     verification, and after development, for rule induction and **data**
     mining where this method provides a potential **tool** for knowledge
     discovery in databases (KDD).
Descriptors--Author Keywords: **DATA   MINING** ; EXPLANATION FACILITIES ;
     INTERPRETATION ; KNOWLEDGE DISCOVERY ; RULE INDUCTION ; VALIDATION AND
     VERIFICATION
Research Fronts: 94-1156 001   (MULTIVARIATE CALIBRATION; ARTIFICIAL NEURAL
     NETWORKS; PARTIAL LEAST-SQUARES REGRESSION; NEAR-INFRARED SPECTROSCOPY;
     HUMAN ACUTE TOXICITY PREDICTION)
   94-8174 001   (NEURAL NETWORKS; EFFICIENT LEARNING ALGORITHMS; ERROR
     PREDICTION FOR A NUCLEAR-POWER-PLANT FAULT-DIAGNOSTIC ADVISER)

Cited References:
     BEST PRACTICE GUIDEL, 1994
     INT J NEURAL NETWORK, 1989, P1
     CAMPBELL MI, 1994, THESIS CRANFIELD U
     CASSELL I, 1991, INVESTIGATION NEURAL
     CAVILL SJ, 1994, THESIS CRANFIELD U
     COTTER F, 1992, INVESTIGATION PROPER
     DAYHOFF J, 1990, NEURAL NETWORK ARCHI
     HECHTNIELSEN R, 1990, NEUROCOMPUTING
     KHABAZA T, 1995, DATA MINING CLEMENTI
     LECUN Y, 1989, CRGTR894 U TOR DEP C
     LIPPMANN RP, 1987, P4, IEEE ASSP MAGAZI APR
     LISBOA PGJ, 1992, NEURAL NETWORKS CURR

1427941 H.W. WILSON RECORD NUMBER: BAST96047925
Avoid data warehousing maintenance migraines
Griffin, Jane;
Datamation v. 42 (Aug. '96) p. 74-6
DOCUMENT TYPE: Feature Article ISSN: 0011-6963 LANGUAGE: English
RECORD STATUS: Corrected or revised record

ABSTRACT: Standards initiatives are emerging for improving the way **data
warehouse** management **tools** talk to and integrate with each other, and
vendors are starting to deliver new and improved products. Possibly the
most notable strides in the area of inter-vendor integration have been made
with the formation of the Metadata Coalition--an Austin, Texas-based
consortium of vendors and users working to develop a standard for
metadata-to-metadata integration. Meanwhile, various vendors have plans to
lessen the maintenance burden by adding intelligence to their metadata
layers . Other vendors boast of taking data warehousing to another level:
Informatica asserts that its PowerMart, which is a server-based product
designed to do data extraction, **mapping** , and **transformation**
automatically, is the first in a wave of next-generation data-warehousing
toolsets.
DESCRIPTORS: Database design; **Data   warehouses** ;

```
Set     Items    Description
S1       1854    DATAMIN? OR DATAFOUNDR? OR DATAMART? OR DATA()(MINE? OR MI-
                 NING OR FOUNDR? OR MART? OR WAREHOUSE?) OR DATAWARE?
S2       8533    TRANSFORM? OR TRANSLAT? OR MAP OR MAPPING OR MAPS OR MAPPED
S3      36939    API OR PROGRAM()INTERFACE? OR MEDIATOR?  OR TOOL? ? OR AGE-
                 NT?
S4       3473    WRAPPER? OR LAYER?
S5        181    UML OR UNIFIED()MODEL?()LANGUAGE?
S6        222    S1 AND (METADATA? OR META()(DATA OR INFORMATION? OR FORMAT-
                 ?) OR METAINFORMATION? OR SCHEMA? ? OR TEMPLATE?)
S7       3360    S5 OR XML OR EXTENSIB?()MARKUP()LANGUAGE
S8          2    S5 (S) S6
S9        285    S2 (S) S1
S10       177    S9 (S) S3
S11        10    S9 (S) S4
S12       189    S6 (S) (S2 OR S3 OR S7)
S13      5540    (S1 OR METADATA? OR META()(DATA OR INFORMATION? OR FORMAT?)
                 OR METAINFORM? OR SCHEMA? ? OR TEMPLATE?)
S14         5    S13 (10N) S2 (S) S3 (10N) S4
S15        32    S13 (S) S5
S16        25    S15(S)S3
S17         9    S16(S)S2
S18        24    S8 OR S11 OR S14 OR S17
S19        17    S18 NOT PY>2000
S20        12    S19 NOT PD>20000107
File 256:SoftBase:Reviews,Companies&Prods. 82-2003/Jun
         (c)2003 Info.Sources Inc
```

01084034   DOCUMENT TYPE: Product

PRODUCT NAME: Kabira Design Center (084034)

Kabira Technologies Inc (696986)
1 McInnis Pkwy
San Rafael, CA 94903 United States
TELEPHONE: (415) 446-5000

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20020530

...speeding the development of change-tolerant applications. The software
uses the Rational Rose (R) graphical **UML** (R) modeling **tool** . It also
supports standards-based textual models and the OMG Action Language. Kabira
Design Center...

...interface and an integrated set of compilers, code generators, auditors,
and other features. Models are **translated** directly into executable Kabira
server applications. With that, hard coding is not required. The software
also generates IDL, MIB, and other interface description files, as well as
SQL database **schemas** for persistent objects. With Kabira Design Center,
users can audit models, create and edit specifications...

01049859   DOCUMENT TYPE: Product

PRODUCT NAME: eJai Integration Solutions (049859)

IGS Inc (702463)
5777 Central Ave #200
Boulder, CO 80301 United States
TELEPHONE: (303) 444-6085

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20010830

IGS's eJai Integration Solutions (TM) combines middleware and
transformation services on a pure Java (R) platform. eJai Integration
Solutions supports XML **metadata** and offers **UML** modeling **tool**
compatibility. eJai includes three modules: eJai **Transform** Designer (TM),
eJai **Transform** (TM), and eJai Conapter (TM). The eJai **Transform**
Designer provides a wide range of features, including a graphical
transformation design **tool** , tree view directories, clickable attribute
mapping , predefined string operations and conversions, customization
functions, and targeted **mapping** of updates. The eJai **Transform**
application uses XML **metadata** created by eJai **Transform** Designer to
perform data **transformations** . The component-based eJai Conapter **tool**
graphically represents application configurations. eJai Conapter helps
developers determine system requirements. Components in eJai Conapter...

...the eJai Integration Simulator (TM). The eJai Model Controller (TM)
provides granular process automation for **mapping** operations. The eJai

Simulator (TM) handles testing demands. Tapping eJai Integration Solutions
(TM), users can...

 20/3,K/3
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
(c)2003 Info.Sources Inc. All rts. reserv.

00119193   DOCUMENT TYPE: Review

PRODUCT NAMES: Microsoft Visio Enterprise 2000 5 (725854)

TITLE: Build A Better Drawing Tool
AUTHOR: Feibus, Andy
SOURCE: Information Week,   v746 p55(4) Aug 2, 1999
ISSN: 8750-6874
HOMEPAGE: http://www.informationweek.com

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: B

REVISION DATE: 20000630

Visio Enterprise 5 from Visio Corporation is a drawing **tool** for IS
professionals that has added features to the earlier Visio Professional 5
to automate creating network **maps** , database models, and software model
diagrams. Visio Enterprise 5 has AutoDiscovery and Layout to examine...
...managed using SNMP. Visio Enterprise 5 also has VisioModeler, which, by
itself is an excellent **tool** for reverse engineering and generating
databases. VM is an object role-modeling **tool** that describes databases by
showing the relationships between entities, their attributes, and their
action, and...

...relationship diagrams. Visio Enterprise 5 also has an improved ability
to model software using the **Unified   Modeling   Language** (**UML**) that
provides a way to describe a software project, and Visio Enterprise 5
includes a substantial set of **templates** and **UML** shapes. Although Visio
Enterprise 5 is a significant improvement over Visio Professional 5,
higher-end **tools** are needed for its higher-end functions.

 20/3,K/4
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
(c)2003 Info.Sources Inc. All rts. reserv.

00119090   DOCUMENT TYPE: Review

**PRODUCT NAMES: ActaLink   (772241); Tapestry   (700959); WarehouseBuilder
(772259); DSS Agent   (516945)**

TITLE: Data warehousing from end to end
AUTHOR: Lamont, Judith
SOURCE: KM World,   v8 n5 p30(3) May 1999
ISSN: 1060-894X
HOMEPAGE: http://www.KMonline.com

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 20021024

...background activities are required from the outset to send clean,
dependable data to users. A **data   warehouse** has to be started with two
concepts in mind: analysis of business needs and evaluation...
...will end up with data needed to support business decisions. Since data
loaded into a **data   warehouse** usually comes from disparate, separately

evolving sources, the data has to be made consistent before it can be useful as part of the **data   warehouse** . Extraction, **transformation** , and load (ETL) products are required. Providers include Ardent and Prism Solutions; examples of available products are ActaLink, which integrates closely with SAP's application **layer** , and Tapestry, which automates ETL for SAP's and PeopleSoft's databases. Some of the...

 20/3,K/5

00118154   DOCUMENT TYPE: Review

PRODUCT NAMES: Microsoft Visio Enterprise 2000 5.0   (725854)

TITLE: Jack of All Trades
AUTHOR: Plotkin, David
SOURCE: Intelligent Enterprise,   v2 n7 p52(3) May 11, 1999
ISSN: 1524-3621
HOMEPAGE: http://www.intelligententerprise.com

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: A

REVISION DATE: 20000630

Visio Enterprise 5.0 by Visio is an excellent **tool** for creating diagrams to aid application development and database design. In the latest version, Visio Enterprise is a comprehensive networking, logical design, and database diagramming and generation **tool** . It reads the user's network automatically and creates a diagram by drawing from its 14,000 vendor-specific shapes. Visio Enterprise also allows the creation of **maps** of Web sites. Version 5.0 supports database generation and options for reverse engineering. Another notable feature is the inclusion of full support for Version 1.2 of **Unified   Modeling   Language** (**UML**) and object role modeling (ORM) notation. Visio Enterprise's **templates** let users create block diagrams, calendars, flowcharts, Rummler-Brache process models, organization charts, office layouts...

...dozen common formats, including HTML pages. For moderate size projects, it may be the only **tool** necessary.

 20/3,K/6

00117180   DOCUMENT TYPE: Review

PRODUCT NAMES: Macromedia Dreamweaver 2 Macintosh & Windows   (671347)

TITLE: Macromedia Dreamweaver 2: A wake-up call for Web designers...
AUTHOR: Surface, Heather
SOURCE: Desktop Publishers Journal,   v11 n3 p14(1) Mar 1999
ISSN: 1093-1732
HOMEPAGE: http://www.dtpjournal.com

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: A

REVISION DATE: 20011030

...to create initially with a conventional Hypertext Markup Language (HTML) authoring program. With Dreamweaver's **templates** , and with **layering** and built-in **map** creation **tools** , a more attractive site was developed in

under an hour. The **layers   tool** permits users to easily and accurately
position text and graphics in layouts that can be...

 20/3,K/7
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
(c)2003 Info.Sources Inc. All rts. reserv.

00111216   DOCUMENT TYPE: Review

PRODUCT NAMES: Data Warehouses (834289); Data Marts (838837)

TITLE: Data Mart Delivery Architecture
AUTHOR: Tiwary, Sanjay Tewary, Asim
SOURCE: Enterprise Systems Journal,   v13 n8 p42(2) Aug 1998
ISSN: 1053-6566
HOMEPAGE: http://www.esj.com

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 19990130

Enterprise Mart Cooker' is the **layer** between a **data   warehouse** and
data   marts , and is part of a dependent **data   mart** environment. The
proposition is put forth that a **data   warehouse** 'will feed this **layer**
with data that has been extracted, cleaned and **transformed** .' A **data
mart** is understood in a specific context to extend beyond the traditional
definition to include broad...

...flat files, including Microsoft Excel spreadsheets. This design will
support the broad definition of a **data   mart** and also provide economical
ways to deliver them. Topics covered include a description of system
components and building a **data   mart** . System components include a mart
cooker input staging **layer** , or an area where **data   warehouse** extracts
are first stored. Extracted data is not dimensional because the **data
warehouse** is relational overall. The input staging are allows simple
restart and recovery methods for mart cooker processes by buffering
extracted warehouse data. The mart cooker process **layer** is a set of
processes that create facts and dimensions from data obtained from the
input staging **layer** . This **layer** allows generation of **data   marts**
with structurally disparate data formats. Other system components described
are the corporate dimension repository **layer** , the mart cooker output
staging **layer** , and the mart delivery **layer** .

 20/3,K/8
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
(c)2003 Info.Sources Inc. All rts. reserv.

00111077   DOCUMENT TYPE: Review

PRODUCT NAMES: ActaLink for SAP R/3 (722332)

TITLE: Acta SAP Extracta
AUTHOR: Deats, Ken
SOURCE: HP Professional,   v12 n7 p12(1) Jul 1998
ISSN: 0986-145X
HOMEPAGE: http://www.hppro.com

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 20021024

Acta Technology's ActaLink for SAP R/3 is the first extraction,

transformation , and loading tool designed with SAP-based construction of
data **warehouses** in mind. A VP of marketing for Acta says he learned in
working with business integration that reporting directly against a
database is not effective. Other methods of building **data** **warehouses**
from SAP R/3 are expensive, time-consuming, and complicated. With ActaLink,
data is extracted from SAP, **transformed** , cleansed, and loaded into a
data **warehouse** or **data** **mart** for analysis. Using a graphical user
interface (GUI) reduces the amount of programming required. Optimized
ABAP/4 code is generated, and data is extracted through the application
layer . Acta Technologies is the only vendor to provide this function, and
ActaLink also can merge...

...sales and financial analysis. The ActaLink Designer graphical interface
permits the user to create data **mapping** and **transformation** rules, which
are stored in the Metadata Repository. The Metadata Repository is populated
with a...

 20/3,K/9
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
(c)2003 Info.Sources Inc. All rts. reserv.

00108733   DOCUMENT TYPE: Review

PRODUCT NAMES: APDesign 9.0   (527262)

TITLE: APDesign
AUTHOR: Dakan, Michael
SOURCE: CADalyst,   v15 n5 p40(3) May 1998
ISSN: 0820-5450
HOMEPAGE: http://www.cadonline.com

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: A

REVISION DATE: 20020124

...at the cut-list level. Layer names are hard-coded and not customizable.
A new **layer** conversion **tool** allows users to save conversion **template**
files that **map** the native APDesign layer names to a disparate layer
system in a new drawing.

 20/3,K/10
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
(c)2003 Info.Sources Inc. All rts. reserv.

00107549   DOCUMENT TYPE: Review

PRODUCT NAMES: OLAP   (835188); Data Warehouses   (834289)

TITLE: Open OLAP: OLAP's Place in the Warehouse Architecture
AUTHOR: Elkins, Steven B
SOURCE: DBMS,   v11 n4 p34(8)(p44(2)) Apr 1998
ISSN: 1041-5173
HOMEPAGE: http://www.dbmsmag.com

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 19990830

...processing's (OLAP's) role in the warehouse architecture covers the
following topics: the operational **layer** ; the atomic **data** **warehouse**
layer ; the departmental, **data** **mart** , or OLAP **layer** ; MOLAP versus
ROLAP; the individual **layer** ; and OLAP in the middle. OLAP resides in the

middle of the business intelligence framework, to merge the atomic **data warehouse layer** and the individual presentation **layer** . When deployed properly, OLAP technology has invisible integration with both contiguous **layers** . To build a useful business intelligence environment, various OLAP servers and front-end tools have...

...form of the supporting database. Operational systems provide raw, transaction-level data to populate the **data warehouse** . The atomic **data warehouse layer** is a read-only archive that holds topic-based historical views of the same transaction...

...has been scrubbed and reformatted into a multidimensional resource more useful for decision support. The **data mart** , or OLAP **layer** , can limit the scope of a **data mart** to allow studying of a specific, well-defined business problem. Architecture has to be complete...

...servers store data in multidimensional array-type data structures, while ROLAP servers use metadata to **map** star-schema databases into multidimensional views.

 20/3,K/11
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
(c)2003 Info.Sources Inc. All rts. reserv.

00094449   DOCUMENT TYPE: Review

PRODUCT NAMES: Intelligent Warehouse   (549215); Oracle Discover/2000 (626252); Project Odysseus   (633731); SAS/Warehouse   (633721)

TITLE: Avoid data warehousing maintenance migraines
AUTHOR: Griffin, Jane
SOURCE: Datamation,   v42 n14   p74(3) Aug 1996
ISSN: 0011-6963
HOMEPAGE: http://www.datamation.com

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 20011130

...the warehouse management tools available are few, standards are emerging to improve ways in which **tools** communicate and integrate. Discover/2000 adds intelligence to metadata **layers** , and it provides a robust server-based metalayer, End User Layer (EUL), that shields users...
...and recommend summary tables automatically. HP plans to integrate Intelligent Warehouse's capabilities for business **metadata** management with third-party tools that manage the extraction and **transformation** of data. SAS/Warehouse will specifically focus on maintenance tasks; for instance, users will no...

 20/3,K/12
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
(c)2003 Info.Sources Inc. All rts. reserv.

00080735   DOCUMENT TYPE: Review

PRODUCT NAMES: BusinessObjects   (391425); BrioQuery   (317951)

TITLE: Data lessons learned
AUTHOR: Janah, Monua
SOURCE: InfoWorld,   v17 n31   p1(2) Jul 31, 1995
ISSN: 0199-6649
HOMEPAGE: http://www.infoworld.com

RECORD TYPE: Review

REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 20021125

A university with data stored in a mainframe implemented a **data warehouse** solution to provide more flexible and widespread access to the information. The university deployed Business...

...to manipulate data and shield users from the complexities of SQL. BusinessObjects uses a semantic **layer** , which **translates** database language into business language. Brio Technology's BrioQuery was also selected. For the university...

...having to intervene. Both packages were fairly difficult to learn but quite powerful. The new **data warehouse** holds about five years' of data from seven systems. The new ability to build ad...

```
Set      Items    Description
S1         11      AU=(MUSICK C? OR MUSICK, C?)
S2          1      AU=(CRITCHLOW T? OR CRITCHLOW, T?)
S3          5      AU=(GANESH M? OR GANISH, M?)
S4          0      AU=(SLEZAK T? OR SLEZAK, T?)
S5          0      AU=(FIDELIS K? OR FIDELIS, K?)
S6          0      S1 AND S2 AND S3 AND S4 AND S5
S7          0      (S1 OR S2 OR S3 OR S4 OR S5) AND IC=(G06F-017/00 OR G06F-0-
                   07/00)
S8          0      (S1 OR S2 OR S3 OR S4 OR S5) AND (DATAMIN? OR DATAWARE? OR
                   DATA()(MINE? OR WAREHOUSE?) OR METADATA? OR META()(DATA OR IN-
                   FORMATION?) OR METAINFORMATION? OR SCHEMA? ?)
S9         17      (S1 OR S2 OR S3)
S10         0      S9 AND IC=G06F?
S11         0      S9 AND IC=H04L?
S12         0      S10 OR S11
S13        17      IDPAT S9 (sorted in duplicate/non-duplicate order)
S14        11      IDPAT S9 (primary/non-duplicate records only)
File 347:JAPIO Oct 1976-2003/Feb(Updated 030603)
         (c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200341
         (c) 2003  Thomson Derwent
File 348:EUROPEAN PATENTS 1978-2003/Jun W04
         (c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20030626,UT=20030619
         (c) 2003 WIPO/Univentio
File 344:Chinese Patents Abs Aug 1985-2003/Mar
         (c) 2003 European Patent Office
```

14/TI/1   (Item 1 from file: 344)

METHOD OF IMPROVING THE QUALITY OF STORED POTATOES

14/TI/2   (Item 2 from file: 344)

METHOD FOR IMPROVING EFFICACY OF INSECT TOXINS

14/TI/3   (Item 3 from file: 344)

GLYPHOSATE-TOLERANT 5-ENOLPYRUVYL-3-PHOSPHOSHIKIMATE SYNTHASE

14/TI/4   (Item 4 from file: 350)

  Mfr. of titanium dioxide by vapour phase reaction - including using a
  truncated cone-shaped finned flue at the reactor outlet as a connector
  piece to a larger dia. cooling flue

14/TI/5   (Item 5 from file: 350)

  Chloride process for titanium dioxide pigment prodn. - comprises reaction
  of oxygen@-contg. gas and titanium tetrachloride vapour in presence of
  inert gas and gives controlled agglomeration of prod.

14/TI/6   (Item 6 from file: 350)

  Cooling hot gaseous suspension of pigmentary metal oxide - by introducing
  bimodal particle size distribution of scouring particles to provide
  effective heat transfer

14/TI/7   (Item 7 from file: 350)

  Hair styling implement - comprises spaced prongs specific dia projecting
  from mounting member

14/TI/8   (Item 8 from file: 350)

  Ceramic batting mfg. appts. for insulated oven or furnace - has feed
  surface defining mechanism and chute producing folded web which is then
  cut and secured with bands

14/TI/9   (Item 9 from file: 350)

  Apparatus for manufacturing discrete layered articles from web - has
  oscillating chute separating layers of notched web material for cutting

14/TI/10   (Item 10 from file: 347)

GLYPHOSATE-RESISTANT PLANT

GLYPHOSATE-RESISTANT 5-ENOL PYRUVYLSHIKIMIC ACID-3- PHOSPHATE SYNTHASE